(19) World Intellectual Property Organization

International Bureau



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(43) International Publication Date 29 July 2004 (29.07.2004)

PCT

(10) International Publication Number WO 2004/063334 A2

(51) International Patent Classification⁷:

C12N

(21) International Application Number:

PCT/US2004/000240

(22) International Filing Date: 8 January 2004 (08.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10/338,044

8 January 2003 (08.01.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOLECULAR CARDIOTOXICOLOGY MODELING

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression and the identification of toxicity markers in tissues or cells exposed to a known cardiotoxin. The genes may be used as toxicity markers in drug screening and toxicity assays. The invention includes a database of genes characterized by toxin-induced differential expression that is designed for use with microarrays and other solid-phase probes.

WO 2004/063334

PCT/US2004/000240

MOLECULAR CARDIOTOXICOLOGY MODELING

INVENTORS: DONNA MENDRICK, MARK PORTER, KORY JOHNSON, BRANDON HIGGS, ARTHUR CASTLE, AND MICHAEL ELASHOFF

RELATED APPLICATIONS

[0001] This application claims priority to U.S. Application 10/338,044, filed January 8, 2003, which is a continuation-in-part of U.S. Application 10/191,803, filed June 10, 2002, which claims priority to U.S. Provisional Applications 60/303,819 filed on July 10, 2001; 60/305,623 filed on July 17, 2001; 60/369,351 filed on April 3, 2002; and 60/377,611 filed on May 6, 2002, all of which are herein incorporated by reference in their entirety.

[0002] This application is also related to U.S. Application Nos. 09/917,800; 10/060,087; 10/152,319; and 10/301,856, all of which are also herein incorporated by reference in their entirety.

SEQUENCE LISTING SUBMISSION ON COMPACT DISC

[0003] The Sequence Listing submitted concurrently herewith on compact disc under Section 801(a)(i) and under 37 C.F.R. §§ 1.821(c) and 1.821(e) is herein incorporated by reference in its entirety. Four copies of the Sequence Listing, one on each of four compact discs are provided. Copy 1, Copy 2 and Copy 3 are identical. Copies 1, 2 and 3 are also identical to the CRF. Each electronic copy of the Sequence Listing was created on January 7, 2004 with a file size of 3952 KB. The file names are as follows: Copy 1- gl 5090 01 wo.txt; Copy 2- gl 5090 01 wo.txt; Copy 3- gl 5090 01 wo.txt; and CRF- gl 5090 01 wo.txt.

BACKGROUND OF THE INVENTION

[0004] The need for methods of assessing the toxic impact of a compound, pharmaceutical agent or environmental pollutant on a cell or living organism has led to the development of procedures which utilize living organisms as biological monitors. The simplest and most convenient of these systems utilize unicellular microorganisms such as yeast and bacteria, since they are the most easily maintained and manipulated. In addition, unicellular screening systems often use easily detectable changes in phenotype to monitor the effect of test compounds on the cell. Unicellular organisms, however, are inadequate models for estimating the potential effects of many compounds on complex multicellular animals, in

part because they do not have the ability to carry out biotransformations to the extent or at levels found in higher organisms.

[0005] The biotransformation of chemical compounds by multicellular organisms is a significant factor in determining the overall toxicity of agents to which they are exposed. Accordingly, multicellular screening systems may be preferred or required to detect the toxic effects of compounds. The use of multicellular organisms as toxicology screening tools has been significantly hampered, however, by the lack of convenient screening mechanisms or endpoints, such as those available in yeast or bacterial systems. In addition, previous attempts to produce toxicology prediction systems have failed to provide the necessary modeling data and statistical information to accurately predict toxic responses (e.g., WO 00/12760, WO 00/47761, WO 00/63435, WO 01/32928, and WO 01/38579).

DESCRIPTION OF THE TABLES

[0006] Table 1 provides the GenBank Accession Number for each of the sequences of the invention (see www.ncbi.nlm.nih.gov/), as well as the corresponding SEQ ID NO. in the sequence listing filed with this application. The gene name and Unigene Cluster Title, if known, cardiotoxicity prediction model code and internal reference no. are also provided. [0007] Table 2 lists and describes the metabolic pathways in which the genes of the invention are known to function.

[0008] Table 3 provides the LocusLink and Unigene names and descriptions for the human homologues of the genes listed in Tables 1 and 2.

[0009] Table 4 defines the model codes, each of which corresponds to a table in Tables 5A-5LL. Each of Tables 5A-5LL represents part of a cardiotoxicity prediction model and lists for each toxin, or class of toxins, the genes that are predictors of a toxic effect. For each gene listed, the mean and standard deviation for gene expression levels in Tox-Group and Non-tox Group samples, as well as the linear discriminant analysis score (LDA score), are indicated.

[0010] Table 5A lists the genes that predict a toxic effect in samples treated with adrenergic agonists.

[0011] Table 5B lists the toxicity prediction genes in samples treated with alkylating agents.

[0012] Table 5C lists the toxicity prediction genes in samples treated with adriamycin (120 and 168-hour time point data).

[0013] Table 5D lists the toxicity prediction genes in samples treated with adriamycin (6 and 24-hour time point data).

[0014] Table 5E lists the toxicity prediction genes in samples treated with amphotericin B. [0015] Tables 5F and 5G list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with BI-QT, a proprietary heart and liver toxin.

[0016] Tables 5H and 5I list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with clenbuterol (24-hour time point data).

[0017] Tables 5J and 5K list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with clenbuterol (6-hour time point data).

[0018] Tables 5L and 5M list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with cyclophosphamide.

[0019] Tables 5N and 5O list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with epinephrine (24-hour time point data).

[0020] Tables 5P and 5Q list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with epinephrine (3 and 6-hour time point data).

[0021] Table 5R lists the toxicity prediction genes in samples treated with epirubicin.

[0022] Tables 5S and 5T list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with hydralazine.

[0023] Tables 5U and 5V list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with ifosfamide.

[0024] Tables 5W and 5X list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with isoproterenol (24-hour time point data).

[0025] Tables 5Y and 5Z list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with isoproterenol (3 and 6-hour time point data).

[0026] Tables 5AA and 5BB list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with minoxidil (3 and 6-hour time point data).

[0027] Tables 5CC and 5DD list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with norepinephrine (24-hour time point data).

[0028] Tables 5EE and 5FF list the toxicity prediction genes in an alternate model and in a core model, respectively, in samples treated with norepinephrine (3 and 6-hour time point data).

[0029] Tables 5GG (3-hour time point data) and 5HH (6 and 24-hour time point data) list the toxicity prediction genes in samples treated with phenylpropanolamine.

[0030] Table 5II lists the toxicity prediction genes in samples treated with rosiglitazone.

[0031] Tables 5JJ and 5KK list the toxicity prediction genes in a general model and in a general core model, respectively. The general model is produced by combining data from all the other models and includes, therefore, samples treated with various compounds and data taken at various time points. The general core model combines data from the core models produced using one toxin.

[0032] Table 5LL lists the toxicity prediction genes in samples treated with vasculature agents.

SUMMARY OF THE INVENTION

[0033] The present invention is based, in part, on the elucidation of the global changes in gene expression in tissues or cells exposed to known toxins, in particular cardiotoxins, as compared to unexposed tissues or cells as well as the identification of individual genes that are differentially expressed upon toxin exposure.

[0034] In various aspects, the invention includes methods of predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, and predicting the cardiotoxicity of a compound. The invention also includes methods of identifying agents that modulate the onset or progression of a toxic response. Also provided are methods of predicting the cellular pathways that a compound modulates in a cell. The invention also includes methods of identifying agents that modulate protein activities.

[0035] In a further aspect, the invention includes probes comprising sequences that specifically hybridize to genes in Tables 1-5LL. Also included are solid supports comprising at least two of the previously mentioned probes. The invention also includes a computer system that has a database containing information identifying the expression level in a tissue or cell sample exposed to a cardiotoxin of a set of genes comprising at least two genes in Tables 1-5LL.

[0036] The invention further provides a core set of genes in Tables 5A-5LL from which probes can be made and attached to solid supports. These core genes serve as a preferred

set of markers of cardiotoxicity and can be used with the methods of the invention to predict or monitor a toxic effect of a compound or to modulate the onset or progression of a toxic response.

DETAILED DESCRIPTION

[0037] Many biological functions are accomplished by altering the expression of various genes through transcriptional (e.g. through control of initiation, provision of RNA precursors, RNA processing, etc.) and/or translational control. For example, fundamental biological processes such as cell cycle, cell differentiation and cell death are often characterized by the variations in the expression levels of groups of genes.

[0038] Changes in gene expression are also associated with the effects of various chemicals, drugs, toxins, pharmaceutical agents and pollutants on an organism or cell(s). For example, the lack of sufficient expression of functional tumor suppressor genes and/or the over-expression of oncogene/protooncogenes after exposure to an agent could lead to tumorgenesis or hyperplastic growth of cells (Marshall (1991), Cell 64: 313-326; Weinberg (1991), Science 254: 1138-1146). Thus, changes in the expression levels of particular genes (e.g. oncogenes or tumor suppressors) may serve as signposts for the presence and progression of toxicity or other cellular responses to exposure to a particular compound.

[0039] Monitoring changes in gene expression may also provide certain advantages during drug screening and development. Often drugs are screened for the ability to interact with a major target without regard to other effects the drugs have on cells. These cellular effects may cause toxicity in the whole animal, which prevents the development and clinical use of the potential drug.

[0040] The present inventors have examined tissue from animals exposed to known cardiotoxins which induce detrimental heart effects, to identify global changes in gene expression and individual changes in gene expression induced by these compounds. These global changes in gene expression, which can be detected by producing or obtaining gene expression profiles (an expression level of one or more genes), provide useful toxicity markers that can be used to monitor toxicity and/or toxicity progression by a test compound. Some of these markers may also be used to monitor or detect various disease or physiological states, disease progression, drug efficacy and drug metabolism.

Identification of Toxicity Markers

[0041] To evaluate and identify gene expression changes that are predictive of toxicity, studies using selected compounds with well characterized toxicity have been conducted by the present inventors to catalogue altered gene expression during exposure *in vivo*. In the present study, cyclophosphamide, ifosfamide, minoxidil, hydralazine, BI-QT, clenbuterol, isoproterenol, norepinephrine, epinephrine, adriamycin, amphotericin B, epirubicin, phenylpropanolamine, and rosiglitazone were selected as known cardiotoxins. Cisplatin, PAN, dopamine, acyclovir, carboplatin, etoposide, temozolomide, vancomycin and compound delivery vehicles were selected as negative controls.

[0042] Cyclophosphamide, an alkylating agent, is highly toxic to dividing cells and is commonly used in chemotherapy to treat non-Hodgkin's lymphomas, Burkitt's lymphoma and carcinomas of the lung, breast, and ovary (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p.1234, 1237-1239, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). Additionally, cyclophosphamide is used as an immunosuppressive agent in bone marrow transplantation and following organ transplantation. Though cyclophosphamide is therapeutically useful, it is also associated with cardiotoxicity, nephrotoxicity, and hemorrhagic cystitis. Once in the liver, cyclophosphamide is hydroxylated by the cytochrome P450 mixed function oxidase system. The active metabolites, phosphoramide mustard and acrolein, cross-link DNA and cause growth arrest and cell death. Acrolein has been shown to decrease cellular glutathione levels (Dorr and Lagel (1994), Chem Biol Interact 93: 117-128). [0043] The cardiotoxic effects of cyclophosphamide have been partially elucidated. One study analyzed plasma levels in 19 women with metastatic breast carcinoma who had been treated with cyclophosphamide, thiotepa, and carboplatin (Ayash et al. (1992), J Clin Oncol 10: 995-1000). Of the 19 women in the study, six developed moderate congestive heart failure. In another case study, a 10-year old boy, who had been treated with highdose cyclophosphamide, developed cardiac arrhythmias and intractable hypotension (Tsai et al. (1990), Am J Pediatr Hematol Oncol 12: 472-476). The boy died 23 days after the transplantation.

[0044] Another clinical study examined the relationship between the amount of cyclophosphamide administered and the development of cardiotoxicity (Goldberg *et al.* (1986), *Blood* 68: 1114-1118). When the cyclophosphamide dosage was \leq 1.55 g/m²/d, only 1 out of 32 patients had symptoms consistent with cyclophosphamide cardiotoxicity.

Yet when the dosage was greater than 1.55 g/m²/d, 13 out of 52 patients were symptomatic. Six of the high-dose patients died of congestive heart failure. [0045] In a related study, Braverman et al. compared the effects of once daily low-dose administration of cyclophosphamide (87 +/- 11 mg/kg) and twice-daily high-dose treatment (174 +/- 34 mg/kg) on bone marrow transplantation patients (Braverman et al. (1991), J Clin Oncol 9: 1215-1223). Within a week, the high-dose patients had an increase in left ventricular mass index. Out of five patients who developed clinical cardiotoxicity, four were in the high-dose group.

[0046] Ifosfamide, an oxazaphosphorine, is an analog of cyclophosphamide. Whereas cyclophosphamide has two chloroethyl groups on the exocyclic nitrogen, ifosfamide contains one chloroethyl group on the ring nitrogen and the other on the exocyclic nitrogen. Ifosfamide is a nitrogen mustard and alkylating agent, commonly used in chemotherapy to treat testicular, cervical, and lung cancer, as well as sarcomas and lymphomas. Like cyclophosphamide, it is activated in the liver by hydroxylation, but it reacts more slowly and produces more dechlorinated metabolites and chloroacetaldehyde. Comparatively higher doses of ifosfamide are required to match the efficacy of cyclophosphamide.

[0047] Alkylating agents can cross-link DNA, resulting in growth arrest and cell death. Despite its therapeutic value, ifosfamide is associated with nephrotoxicity (affecting the proximal and distal renal tubules), urotoxicity, venooclusive disease, myelosuppression, pulmonary fibrosis and central neurotoxicity (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p.1234-1240, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). Ifosfamide can also cause acute severe heart failure and malignant ventricular arrhythmia, which may be reversible. Death from cardiogenic shock has also been reported (Cecil Textbook of Medicine 20th ed., Bennett et al. eds., p. 331, W.B. Saunders Co., Philadelphia, 1996).

[0048] Studies of patients with advanced or resistant lymphomas or carcinomas showed that high-dose ifosfamide treatment produced various symptoms of cardiac disease, including dyspnea, tachycardia, decreased left ventricular contractility and malignant ventricular arrhythmia (Quezado et al. (1993), Ann Intern Med 118: 31-36; Wilson et al. (1992), J Clin Oncol 19: 1712-1722). Other patient studies have noted that ifosfamide-induced cardiac toxicity may be asymptomatic, although it can be detected by electrocardiogram and should be monitored (Pai et al. (2000), Drug Saf 22:263-302).

[0049] Minoxidil is an antihypertensive medicinal agent used in the treatment of high blood pressure. It works by relaxing blood vessels so that blood may pass through them more easily, thereby lowering blood pressure. By applying minoxidil to the scalp, it has recently been shown to be effective at combating hair loss by stimulating hair growth. Once minoxidil is metabolized by hepatic sulfotransferase, it is converted to the active molecule minoxidil N-O sulfate (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., pp. 796-797, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). The active minoxidil sulfate stimulates the ATP-modulated potassium channel consequently causing hyperpolarization and relaxation of smooth muscle. Early studies on minoxidil demonstrated that following a single dose of the drug, patients suffering from left ventricular failure exhibited a slightly increased heart rate, a fall in the mean arterial pressure, a fall in the systemic vascular resistance, and a slight increase in cardiac index (Franciosa and Cohn (1981) Circulation 63: 652-657).

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[0050] Some common side effects associated with minoxidil treatment are an increase in hair growth, weight gain, and a fast or irregular heartbeat. More serious side effects are numbness of the hands, feet, or face, chest pain, shortness of breath, and swelling of the feet or lower legs. Because of the risks of fluid retention and reflex cardiovascular effects, minoxidil is often given concomitantly with a diuretic and a sympatholytic drug.
[0051] While minoxidil is effective at lowering blood pressure, it does not lead to a regression of cardiac hypertrophy. To the contrary, minoxidil has been shown to cause cardiac enlargement when administered to normotensive animals (Moravec *et al.* (1994) *J Pharmacol Exp Ther* 269: 290-296). Moravec *et al.* examined normotensive rats that had developed myocardial hypertrophy following treatment with minoxidil. The authors found that minoxidil treatment led to enlargement of the left ventricle, right ventricle, and interventricular septum.

[0052] Another rat study investigated the age- and dose-dependency of minoxidil-induced cardiotoxicity (Herman *et al.* (1996) *Toxicology* 110: 71-83). Rats ranging in age from 3 months to 2 years were given varying amounts of minoxidil over the period of two days. The investigators observed interstitial hemorrhages at all dose levels, however the hemorrhages were more frequent and severe in the older animals. The 2 year old rats had vascular lesions composed of arteriolar damage and calcification.

[0053] Hydralazine, an antihypertensive drug, causes relaxation of arteriolar smooth muscle. Such vasodilation is linked to vigorous stimulation of the sympathetic nervous

system, which in turn leads to increased heart rate and contractility, increased plasma renin activity, and fluid retention (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 794, J.G. Hardman *et al.*, Eds., McGraw Hill, New York, 1996). The increased renin activity leads to an increase in angiotensin II, which in turn causes stimulation of aldosterone and sodium reabsorption.

[0054] Hydralazine is used for the treatment of high blood pressure (hypertension) and for the treatment of pregnant women suffering from high blood pressure (pre-eclampsia or eclampsia). Some common side effects associated with hydralazine use are diarrhea, rapid heartbeat, headache, decreased appetite, and nausea. Hydralazine is often used concomitantly with drugs that inhibit sympathetic activity to combat the mild pulmonary hypertension that can be associated with hydralazine usage.

[0055] In one hydralazine study, rats were given one of five cardiotoxic compounds (isoproterenol, hydralazine, caffeine, cyclophosphamide, or adriamycin) by intravenous injection (Kemi et al. (1996), J Vet Med Sci 58: 699-702). At one hour and four hours post-dose, early focal myocardial lesions were observed histopathologically. Lesions were observed in the rats treated with hydralazine four hours post-dose. The lesions were found in the inner one third of the left ventricular walls including the papillary muscles.

[0056] Another study compared the effects of isoproterenol, hydralazine and minoxidil on young and mature rats (Hanton et al. (1991), Res Commun Chem Pathol Pharmacol 71: 231-234). Myocardial necrosis was observed in both age groups, but it was more severe in the mature rats. Hypotension and reflex tachycardia were also seen in the hydralazine-treated rats.

[0057] BI-QT has been shown to induce QC prolongation in dogs and liver alterations in rats. Over a four week period, dogs treated with BI-QT exhibited sedation, decreased body weight, increased liver weight, and slightly increased levels of AST, ALP, and BUN. After three months of treatment, the dogs exhibited signs of cardiovascular effects.

[0058] Clenbuterol, a β2 adrenergic agonist, can be used therapeutically as a bronchial dilator for asthmatics. It also has powerful muscle anabolic and lipolytic effects. It has been banned in the United States but continues to be used illegally by athletes to increase muscle growth. In a number of studies, rats treated with clenbuterol developed hypertrophy of the heart and latissimus dorsi muscle (Doheny et al. (1998), Amino Acids 15: 13-25; Murphy et al. (1999), Proc Soc Exp Biol Med 221: 184-187; Petrou et al. (1995), Circulation 92: II483-II489).

[0059] In one study, mares treated with therapeutic levels of clenbuterol were compared to mares that were exercised and mares in a control group (Sleeper et al. (2002), Med Sci Sports Exerc 34: 643-650). The clenbuterol-treated mares demonstrated significantly higher left ventricular internal dimension and interventricular septal wall thickness at end diastole. In addition, the clenbuterol-treated mares had significantly increased aortic root dimensions, which could lead to an increased chance of aortic rupture.

[0060] In another study, investigators reported a case of acute clenbuterol toxicity in a human (Hoffman *et al.* (2001), *J Toxicol* 39: 339-344). A 28-year old woman had ingested a small quantity of clenbuterol, and the patient developed sustained sinus tachycardia, hypokalemia, hypophosphatemia, and hypomagnesemia.

[0061] Catecholamines are neurotransmitters that are synthesized in the adrenal medulla and in the sympathetic nervous system. Epinephrine, norepinephrine, and isoproterenol are members of the catecholamine sympathomimetic amine family (Casarett & Doull's Toxicology, The Basic Science of Poisons 6th ed., p. 618-619, C.D. Klaassen, Ed., McGraw Hill, New York, 2001). They are chemically similar by having an aromatic portion (catechol) to which is attached an amine, or nitrogen-containing group.

[0062] Isoproterenol, an antiarrhythmic agent, is used therapeutically as a bronchodilator for the treatment of asthma, chronic bronchitis, emphysema, and other lung diseases. Some side effects of usage are myocardial ischemia, arrhythmias, angina, hypertension, and tachycardia. As a β receptor agonist, isoproterenol exerts direct positive inotropic and chronotropic effects. Peripheral vascular resistance is decreased along with the pulse pressure and mean arterial pressure. However, the heart rate increases due to the decrease in the mean arterial pressure.

[0063] Norepinephrine, an α and β receptor agonist, is also known as noradrenaline. It is involved in behaviors such as attention and general arousal, stress, and mood states. By acting on β -1 receptors, it causes increased peripheral vascular resistance, pulse pressure and mean arterial pressure. Reflex bradycardia occurs due to the increase in mean arterial pressure. Some contraindications associated with norepinephrine usage are myocardial ischemia, premature ventricular contractions (PVCs), and ventricular tachycardia.

[0064] Epinephrine, a potent α and β adrenergic agonist, is used for treating bronchoconstriction and hypotension resulting from anaphylaxis as well as all forms of cardiac arrest. Injection of epinephrine leads to an increase in systolic pressure, ventricular contractility, and heart rate. Some side effects associated with epinephrine

usage are cardiac arrhythmias, particularly PVCs, ventricular tachycardia, renal vascular ischemia, increased myocardial oxygen requirements, and hypokalemia.

[0065] Anthracyclines are antineoplastic agents used commonly for the treatment of breast cancer, leukemias, and a variety of other solid tumors. However, the usefulness of the drugs are limited due dose-dependent cardiomyopathy and ECG changes (<u>Casarett & Doull's Toxicology, The Basic Science of Poisons 6th ed.</u>, p. 619, C.D. Klaassen, Ed., McGraw Hill, New York, 2001).

[0066] Adriamycin (doxorubicin) is a cytotoxic anthracycline antiobiotic that inhibits the action of topoisomerase II. It has a wide spectrum of antitumor activity, however dose-related cardiotoxicity is a major side effect. The toxic effects are most likely due to the generation of free radicals (DeAtley et al. (1999), Toxicology 134: 51-62). In one study, rats were given a dose of either adriamycin alone or a dose of adriamycin following a dose of captopril (al-Shabanah et al. (1998), Biochem Mol Biol Int 45: 419-427). Those rats that were only given adriamycin developed myocardial toxicity after 24 hours manifested biochemically by an elevation of serum enzymes such as aspartate transaminase, lactate dehydrogenase, and creatine phosphokinase. The rats that were pre-treated with captopril exhibited a significant reduction in serum enzyme levels as well as restoration of white blood cell counts.

[0067] Epirubicin is a semisynthetic derivative of daunorubicin, an anthracycline, approved for the treatment of breast cancer (Casarett & Doull's Toxicology, The Basic Science of Poisons 6th ed., p. 619, C.D. Klaassen, Ed., McGraw Hill, New York, 2001). Yet, it, too, may induce cardiotoxicity. In one observational study, 120 patients with advanced breast cancer were followed before, during, and after treatment with epirubicin (Jensen et al. (2002), Ann Oncol 13: 699-709). Approximately 59% of the patients experienced a 25% relative reduction in left ventricular ejection fraction three years after epirubicin treatment, and of these patients 20% had deteriorated into having congestive heart failure.

[0068] Amphotericin B is a polyene, antifungal antibiotic used to treat fungal infections. Its clinical utility is limited by its nephrotoxicity and cardiotoxicity. Amphotericin B may depress myocardial contractility by blocking activation of slow calcium channels and inhibiting the influx of sodium ions (Casarett & Doull's Toxicology, The Basic Science of Poisons 6th ed., p. 621, C.D. Klaassen, Ed., McGraw Hill, New York, 2001). It has been shown to increase the permeability of the sarcolemmal membrane, and patients given

amphotericin B have developed ventricular tachycardia and cardiac arrest. This drug has been shown to induce cardiac arrest in rats as well. In the current study, amphotericin B led to an increase in serum Troponin T levels and some early signs of cardiomyopathy within 24 hours of one intravenous bolus injection.

[0069] Phenylpropanolamine was used in over-the-counter decongestants until recently, but was withdrawn when its association with cardiac deaths became known. It is both a beta-1 and alpha adrenergic receptor agonist and has been shown to induce cardiotoxicity in rats. In one rat study, phenylpropanolamine was shown to cause myocardial contractile depression without altering global coronary artery blood flow (Zaloga et al. (2000), *Crit Care Med* 28: 3679-3683).

[0070] In another study, rats were given single intraperitoneal doses of 1, 2, 4, 8, 16, or 32 mg/kg of phenylpropanolamine (Pentel *et al.* (1987), *Fundam Appl Toxicol* 9: 167-172). The animals exhibited dose-dependent increased blood pressure and, following termination, myocardial necrosis.

[0071] Rosiglitazone (Avandia) is a thiazolidinedione medication used to treat Type 2 diabetes. It reduces plasma glucose levels and glucose production and increases glucose clearance (Wagstaff and Goa (2002), *Drugs* 62: 1805-1837). Some side effects associated with rosiglitazone treatment are fluid retention, congestive heart failure, and liver disease. In patients who have heart failure or use insulin, there is a potential for mild-to-moderate peripheral edema with rosiglitazone treatment. It has been shown that patients that do not have heart failure or use insulin can also develop moderate-to-severe edema while using rosiglitazone (Niemeyer and Janney (2002), *Pharmacotherapy* 22: 924-929).

Toxicity Prediction and Modeling

[0072] The genes, gene expression information (including Tox Group means and standard deviations, Nontox Group means and standard deviations, and LDA scores) and gene expression profiles, as well as the portfolios and subsets of the genes provided in Tables 1-5LL, such as the core toxicity markers in Tables 5A-5LL, may be used to predict at least one toxic effect, including the cardiotoxicity of a test or unknown compound. As used herein, at least one toxic effect includes, but is not limited to, a detrimental change in the physiological status of a cell or organism. The response may be, but is not required to be, associated with a particular pathology, such as tissue necrosis, myocarditis, arrhythmias, tachycardia, myocardial ischemia, angina, hypertension, hypotension, dyspnea, and cardiogenic shock. Accordingly, the toxic effect includes effects at the molecular and

cellular level. Cardiotoxicity is an effect as used herein and includes but is not limited to the pathologies of tissue necrosis, myocarditis, arrhythmias, tachycardia, myocardial ischemia, angina, hypertension, hypotension, dyspnea, and cardiogenic shock. As used herein, a gene expression profile comprises any representation, quantitative or not, of the expression of at least one mRNA species in a cell sample or population and includes profiles made by various methods such as differential display, PCR, hybridization analysis, etc.

[0073] In general, assays to predict the toxicity or cardiotoxicity of a test agent (or compound or multi-component composition) comprise the steps of exposing a cell population to the test compound, assaying or measuring the level of relative or absolute gene expression of one or more of the genes in Tables 1-5LL and comparing the identified expression level(s) to the expression levels disclosed in the Tables and database(s) disclosed herein. Assays may include the measurement of the expression levels of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 50, 75, 100, 200, 500, 1000 or more genes from Tables 1-5LL, or ranges of these numbers, such as about 2-10, about 10-20, about 20-50, about 50-100, about 100-200, about 200-500 or about 500-1000 genes from Tables 1-5LL to create multi-gene expression profiles. Assays for toxicity prediction may also include the measurement of nearly all the genes in Tables 1-5LL. "Nearly all" or "substantially all" the genes or gene information may be considered to mean at least 80%, preferably 85%, 90% or 95%, of the genes or information in any one of or all of Tables 1-5LL. [0074] The genes, gene expression information and databases of the present invention may also be used to predict the absence of a toxic effect, or the non-toxicity of a test compound. Gene expression profiles of cell or tissue samples from subjects or samples exposed to the test compound are prepared or obtained and then compared to those stored in a database of the invention. If the test sample gene expression profiles correlate with gene expression profiles classified as Non-tox Group samples, the test compound may considered not to produce a toxic effect.

[0075] Further, the gene expression information and databases of the present invention may also be used to predict the dosage or level of exposure at which a particular test compound produces a toxic effect. Groups of human or animal subjects may be treated with varying dosages of a test compound for varying lengths of time, or cell or tissue samples may be taken from groups of human or animal subjects and treated with varying dosages of a test compound for varying lengths of time. Alternatively, human or animal

cell cultures may be exposed to varying dosages of a test compound for varying lengths of time. Gene expression profiles may then be prepared or obtained from the set of samples treated with the test compound. These gene expression profiles may subsequently be compared to gene expression profiles stored in a database of the invention. In the sample set, the lowest concentration or dosage of the test compound that produces a gene expression profile that matches a gene expression profile indicating a toxic effect (corresponding to one or more Tox-Group samples in the database) may be determined. This concentration or dosage may be considered to be the threshold level at or above which a toxic response or effect may be predicted.

[0076] In the methods of the invention, the gene expression level for a gene or genes induced by the test agent, compound or compositions may be comparable to the levels found in the Tables or databases disclosed herein if the expression level varies within a factor of about 2, about 1.5 or about 1.0 fold. In some cases, the expression levels are comparable if the agent induces a change in the expression of a gene in the same direction (e.g., up or down) as a reference toxin.

[0077] The cell population that is exposed to the test agent, compound or composition may be exposed in vitro or in vivo. For instance, cultured or freshly isolated heart cells, in particular rat heart cells, may be exposed to the agent under standard laboratory and cell culture conditions. In another assay format, in vivo exposure may be accomplished by administration of the agent to a living animal, for instance a laboratory rat. [0078] Procedures for designing and conducting toxicity tests in in vitro and in vivo systems are well known, and are described in many texts on the subject, such as Loomis et al., Loomis's Essentials of Toxicology, 4th Ed., Academic Press, New York, 1996; Echobichon, The Basics of Toxicity Testing, CRC Press, Boca Raton, 1992; Frazier, editor, In Vitro Toxicity Testing, Marcel Dekker, New York, 1992; and the like. [0079] In in vitro toxicity testing, two groups of test organisms are usually employed: one group serves as a control and the other group receives the test compound in a single dose (for acute toxicity tests) or a regimen of doses (for prolonged or chronic toxicity tests). Because, in some cases, the extraction of tissue as called for in the methods of the invention requires sacrificing the test animal, both the control group and the group receiving compound must be large enough to permit removal of animals for sampling tissues, if it is desired to observe the dynamics of gene expression through the duration of

an experiment.

[0080] In setting up a toxicity study, extensive guidance is provided in the literature for selecting the appropriate test organism for the compound being tested, route of administration. dose ranges, and the like. Water or physiological saline (0.9% NaCl in water) is the solute of choice for the test compound since these solvents permit administration by a variety of routes. When this is not possible because of solubility limitations, vegetable oils such as corn oil or organic solvents such as propylene glycol may be used.

[0081] Regardless of the route of administration, the volume required to administer a given dose is limited by the size of the animal that is used. It is desirable to keep the volume of each dose uniform within and between groups of animals. When rats or mice are used, the volume administered by the oral route generally should not exceed about 0.005 ml per gram of animal. Even when aqueous or physiological saline solutions are used for parenteral injection, the volumes that are tolerated are limited, although such solutions are ordinarily thought of as being innocuous. The intravenous LD₅₀ of distilled water in the mouse is approximately 0.044 ml per gram and that of isotonic saline is 0.068 ml per gram of mouse. In some instances, the route of administration to the test animal should be the same as, or as similar as possible to, the route of administration of the compound to man for therapeutic purposes.

[0082] When a compound is to be administered by inhalation, special techniques for generating test atmospheres are necessary. The methods usually involve aerosolization or nebulization of fluids containing the compound. If the agent to be tested is a fluid that has an appreciable vapor pressure, it may be administered by passing air through the solution under controlled temperature conditions. Under these conditions, dose is estimated from the volume of air inhaled per unit time, the temperature of the solution, and the vapor pressure of the agent involved. Gases are metered from reservoirs. When particles of a solution are to be administered, unless the particle size is less than about 2 µm the particles will not reach the terminal alveolar sacs in the lungs. A variety of apparatuses and chambers are available to perform studies for detecting effects of irritant or other toxic endpoints when they are administered by inhalation. The preferred method of administering an agent to animals is via the oral route, either by intubation or by incorporating the agent in the feed.

[0083] When the agent is exposed to cells in vitro or in cell culture, the cell population to be exposed to the agent may be divided into two or more subpopulations, for instance, by

dividing the population into two or more identical aliquots. In some preferred embodiments of the methods of the invention, the cells to be exposed to the agent are derived from heart tissue. For instance, cultured or freshly isolated rat heart cells may be used.

[0084] The methods of the invention may be used generally to predict at least one toxic response, and, as described in the Examples, may be used to predict the likelihood that a compound or test agent will induce various specific heart pathologies, such as tissue necrosis, myocarditis, arrhythmias, tachycardia, myocardial ischemia, angina, hypertension, hypotension, dyspnea, cardiogenic shock, or other pathologies associated with at least one of the toxins herein described. The methods of the invention may also be used to determine the similarity of a toxic response to one or more individual compounds. In addition, the methods of the invention may be used to predict or elucidate the potential cellular pathways influenced, induced or modulated by the compound or test agent due to the similarity of the expression profile compared to the profile induced by a known toxin (see Tables 5-5LL).

Diagnostic Uses for the Toxicity Markers

[0085] As described above, the genes and gene expression information or portfolios of the genes with their expression information as provided in Tables 1-5LL may be used as diagnostic markers for the prediction or identification of the physiological state of a tissue or cell sample that has been exposed to a compound or to identify or predict the toxic effects of a compound or agent. For instance, a tissue sample such as a sample of peripheral blood cells or some other easily obtainable tissue sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 5-5LL may be compared to the expression levels found in tissues or cells exposed to the toxins described herein. These methods may result in the diagnosis of a physiological state in the cell, may be used to diagnose toxin exposure or may be used to identify the potential toxicity of a compound, for instance a new or unknown compound or agent that the subject has been exposed to. The comparison of expression data, as well as available sequence or other information may be done by researcher or diagnostician or may be done with the aid of a computer and databases as described below. [0086] In another format, the levels of a gene(s) of Tables 5-5LL, its encoded protein(s), or any metabolite produced by the encoded protein may be monitored or detected in a sample, such as a bodily tissue or fluid sample to identify or diagnose a physiological state

of an organism. Such samples may include any tissue or fluid sample, including urine, blood and easily obtainable cells such as peripheral lymphocytes.

Use of the Markers for Monitoring Toxicity Progression

[0087] As described above, the genes and gene expression information provided in Tables 5-5LL may also be used as markers for the monitoring of toxicity progression, such as that found after initial exposure to a drug, drug candidate, toxin, pollutant, *etc.* For instance, a tissue or cell sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 5-5LL may be compared to the expression levels found in tissue or cells exposed to the cardiotoxins described herein. The comparison of the expression data, as well as available sequence or other information may be done by a researcher or diagnostician or may be done with the aid of a computer and databases.

Use of the Toxicity Markers for Drug Screening

[0088] According to the present invention, the genes identified in Tables 1-5LL may be used as markers or drug targets to evaluate the effects of a candidate drug, chemical compound or other agent on a cell or tissue sample. The genes may also be used as drug targets to screen for agents that modulate their expression and/or activity. In various formats, a candidate drug or agent can be screened for the ability to stimulate the transcription or expression of a given marker or markers or to down-regulate or counteract the transcription or expression of a marker or markers. According to the present invention, one can also compare the specificity of a drug's effects by looking at the number of markers which the drug induces and comparing them. More specific drugs will have less transcriptional targets. Similar sets of markers identified for two drugs may indicate a similarity of effects.

[0089] Assays to monitor the expression of a marker or markers as defined in Tables 1-5LL may utilize any available means of monitoring for changes in the expression level of the nucleic acids of the invention. As used herein, an agent is said to modulate the expression of a nucleic acid of the invention if it is capable of up- or down-regulating expression of the nucleic acid in a cell.

[0090] In one assay format, gene chips containing probes to one, two or more genes from Tables 1-5LL may be used to directly monitor or detect changes in gene expression in the treated or exposed cell. Cell lines, tissues or other samples are first exposed to a test agent

and in some instances, a known toxin, and the detected expression levels of one or more, or preferably 2 or more of the genes of Tables 1-5LL are compared to the expression levels of those same genes exposed to a known toxin alone. Compounds that modulate the expression patterns of the known toxin(s) would be expected to modulate potential toxic physiological effects *in vivo*. The genes in Tables 1-5LL are particularly appropriate markers in these assays as they are differentially expressed in cells upon exposure to a known cardiotoxin. Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession numbers. Table 3 discloses the human homologues and the corresponding GenBank Accession numbers of the differentially expressed genes of Tables 1 and 2.

[0091] In another format, cell lines that contain reporter gene fusions between the open reading frame and/or the transcriptional regulatory regions of a gene in Tables 1-5LL and any assayable fusion partner may be prepared. Numerous assayable fusion partners are known and readily available including the firefly luciferase gene and the gene encoding chloramphenical acetyltransferase (Alam et al. (1990), Anal Biochem 188: 245-254). Cell lines containing the reporter gene fusions are then exposed to the agent to be tested under appropriate conditions and time. Differential expression of the reporter gene between samples exposed to the agent and control samples identifies agents which modulate the expression of the nucleic acid.

[0092] Additional assay formats may be used to monitor the ability of the agent to modulate the expression of a gene identified in Tables 5-5LL. For instance, as described above, mRNA expression may be monitored directly by hybridization of probes to the nucleic acids of the invention. Cell lines are exposed to the agent to be tested under appropriate conditions and time, and total RNA or mRNA is isolated by standard procedures such those disclosed in Sambrook *et al.* (Molecular Cloning: A Laboratory Manual, 2nd Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989). [0093] In another assay format, cells or cell lines are first identified which express the gene products of the invention physiologically. Cells and/or cell lines so identified would be expected to comprise the necessary cellular machinery such that the fidelity of modulation of the transcriptional apparatus is maintained with regard to exogenous contact of agent with appropriate surface transduction mechanisms and/or the cytosolic cascades. Further, such cells or cell lines may be transduced or transfected with an expression vehicle (e.g., a plasmid or viral vector) construct comprising an operable non-translated 5'-

promoter containing end of the structural gene encoding the gene products of Tables 1-5LL fused to one or more antigenic fragments or other detectable markers, which are peculiar to the instant gene products, wherein said fragments are under the transcriptional control of said promoter and are expressed as polypeptides whose molecular weight can be distinguished from the naturally occurring polypeptides or may further comprise an immunologically distinct or other detectable tag. Such a process is well known in the art (see Sambrook *et al.*, *supra*).

[0094] Cells or cell lines transduced or transfected as outlined above are then contacted with agents under appropriate conditions; for example, the agent comprises a pharmaceutically acceptable excipient and is contacted with cells comprised in an aqueous physiological buffer such as phosphate buffered saline (PBS) at physiological pH, Eagles balanced salt solution (BSS) at physiological pH, PBS or BSS comprising serum or conditioned media comprising PBS or BSS and/or serum incubated at 37°C. Said conditions may be modulated as deemed necessary by one of skill in the art. Subsequent to contacting the cells with the agent, said cells are disrupted and the polypeptides of the lysate are fractionated such that a polypeptide fraction is pooled and contacted with an antibody to be further processed by immunological assay (e.g., ELISA, immunoprecipitation or Western blot). The pool of proteins isolated from the "agentcontacted" sample is then compared with the control samples (no exposure and exposure to a known toxin) where only the excipient is contacted with the cells and an increase or decrease in the immunologically generated signal from the "agent-contacted" sample compared to the control is used to distinguish the effectiveness and/or toxic effects of the agent.

Use of Toxicity Markers to Identify Agents that Modulate Protein Activity or Levels [0095] Another embodiment of the present invention provides methods for identifying agents that modulate at least one activity of a protein(s) encoded by the genes in Tables 1-5LL. Such methods or assays may utilize any means of monitoring or detecting the desired activity.

[0096] In one format, the relative amounts of a protein (Tables 1-5LL) between a cell population that has been exposed to the agent to be tested compared to an unexposed control cell population and a cell population exposed to a known toxin may be assayed. In this format, probes such as specific antibodies are used to monitor the differential expression of the protein in the different cell populations. Cell lines or populations are

exposed to the agent to be tested under appropriate conditions and time. Cellular lysates may be prepared from the exposed cell line or population and a control, unexposed cell line or population. The cellular lysates are then analyzed with the probe, such as a specific antibody.

[0097] Agents that are assayed in the above methods can be randomly selected or rationally selected or designed. As used herein, an agent is said to be randomly selected when the agent is chosen randomly without considering the specific sequences involved in the association of a protein of the invention alone or with its associated substrates, binding partners, *etc*. An example of randomly selected agents is the use a chemical library or a peptide combinatorial library, or a growth broth of an organism.

[0098] As used herein, an agent is said to be rationally selected or designed when the agent is chosen on a nonrandom basis which takes into account the sequence of the target site and/or its conformation in connection with the agent's action. Agents can be rationally selected or rationally designed by utilizing the peptide sequences that make up these sites. For example, a rationally selected peptide agent can be a peptide whose amino acid sequence is identical to or a derivative of any functional consensus site.

[0099] The agents of the present invention can be, as examples, peptides, small molecules, vitamin derivatives, as well as carbohydrates. Dominant negative proteins, DNAs encoding these proteins, antibodies to these proteins, peptide fragments of these proteins or mimics of these proteins may be introduced into cells to affect function. "Mimic" as used herein refers to the modification of a region or several regions of a peptide molecule to provide a structure chemically different from the parent peptide but topographically and functionally similar to the parent peptide (see G.A. Grant in: Molecular Biology and Biotechnology, Meyers, ed., pp. 659-664, VCH Publishers, New York, 1995). A skilled artisan can readily recognize that there is no limit as to the structural nature of the agents of the present invention.

Nucleic Acid Assay Formats

[00100] As previously discussed, the genes identified as being differentially expressed upon exposure to a known cardiotoxin (Tables 1-5LL) may be used in a variety of nucleic acid detection assays to detect or quantify the expression level of a gene or multiple genes in a given sample. The genes described in Tables 1-5LL may also be used in combination with one or more additional genes whose differential expression is associate with toxicity in a cell or tissue. In preferred embodiments, the genes in Tables 5-5LL may be combined

with one or more of the genes described in prior and related applications 60/303,819 filed on July 10, 2001; 60/305,623 filed on July 17, 2001; 60/369,351 filed on April 3, 2002; and 60/377,611 filed on May 6, 2002; 09/917,800; 10/060,087; 10/152,319; 10/191,803, and 10/301,856, all of which are incorporated by reference.

[00101] Any assay format to detect gene expression may be used. For example, traditional Northern blotting, dot or slot blot, nuclease protection, primer directed amplification, RT- PCR, semi- or quantitative PCR, branched-chain DNA and differential display methods may be used for detecting gene expression levels. Those methods are useful for some embodiments of the invention. In cases where smaller numbers of genes are detected, amplification based assays may be most efficient. Methods and assays of the invention, however, may be most efficiently designed with hybridization-based methods for detecting the expression of a large number of genes.

[00102] Any hybridization assay format may be used, including solution-based and solid support-based assay formats. Solid supports containing oligonucleotide probes for differentially expressed genes of the invention can be filters, polyvinyl chloride dishes, particles, beads, microparticles or silicon or glass based chips, *etc.* Such chips, wafers and hybridization methods are widely available, for example, those disclosed by Beattie (WO 95/11755).

[00103] Any solid surface to which oligonucleotides can be bound, either directly or indirectly, either covalently or non-covalently, can be used. A preferred solid support is a high density array or DNA chip. These contain a particular oligonucleotide probe in a predetermined location on the array. Each predetermined location may contain more than one molecule of the probe, but each molecule within the predetermined location has an identical sequence. Such predetermined locations are termed features. There may be, for example, from 2, 10, 100, 1000 to 10,000, 100,000, 400,000 or 1,000,000 or more of such features on a single solid support. The solid support, or the area within which the probes are attached may be on the order of about a square centimeter. Probes corresponding to the genes of Tables 5-5LL or from the related applications described above may be attached to single or multiple solid support structures, e.g., the probes may be attached to a single chip or to multiple chips to comprise a chip set.

[00104] Oligonucleotide probe arrays for expression monitoring can be made and used according to any techniques known in the art (see for example, Lockhart et al. (1996), Nat Biotechnol 14: 1675-1680; McGall et al. (1996), Proc Nat Acad Sci USA 93: 13555-

13460). Such probe arrays may contain at least two or more oligonucleotides that are complementary to or hybridize to two or more of the genes described in Tables 5-5LL. For instance, such arrays may contain oligonucleotides that are complementary to or hybridize to at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 50, 70, 100 or more of the genes described herein. Preferred arrays contain all or nearly all of the genes listed in Tables 1-5LL, or individually, the gene sets of Tables 5-5LL. In a preferred embodiment, arrays are constructed that contain oligonucleotides to detect all or nearly all of the genes in any one of or all of Tables 1-5LL on a single solid support substrate, such as a chip. [00105] The sequences of the expression marker genes of Tables 1-5LL are in the public databases. Table 1 provides the GenBank Accession Number for each of the sequences (see www.ncbi.nlm.nih.gov/) as well as a corresponding SEQ ID NO. in the sequence listing filed with this application. Table 3 provides the LocusLink and Unigene names and descriptions for the human homologues of the genes described in Tables 1 and 2. The sequences of the genes in GenBank and/or RefSeq are expressly herein incorporated by reference in their entirety as of the filing date of this application, as are related sequences, for instance, sequences from the same gene of different lengths, variant sequences, polymorphic sequences, genomic sequences of the genes and related sequences from different species, including the human counterparts, where appropriate (see Table 3). These sequences may be used in the methods of the invention or may be used to produce the probes and arrays of the invention. In some embodiments, the genes in Tables 1-5LL that correspond to the genes or fragments previously associated with a toxic response may be excluded from the Tables.

[00106] As described above, in addition to the sequences of the GenBank Accession Numbers disclosed in the Tables 1-5LL, sequences such as naturally occurring variants or polymorphic sequences may be used in the methods and compositions of the invention. For instance, expression levels of various allelic or homologous forms of a gene disclosed in Tables 1-5LL may be assayed. Any and all nucleotide variations that do not significantly alter the functional activity of a gene listed in the Tables 1-5LL, including all naturally occurring allelic variants of the genes herein disclosed, may be used in the methods and to make the compositions (e.g., arrays) of the invention.

[00107] Probes based on the sequences of the genes described above may be prepared by any commonly available method. Oligonucleotide probes for screening or assaying a tissue or cell sample are preferably of sufficient length to specifically hybridize only to

appropriate, complementary genes or transcripts. Typically the oligonucleotide probes will be at least about 10, 12, 14, 16, 18, 20 or 25 nucleotides in length. In some cases, longer probes of at least 30, 40, or 50 nucleotides will be desirable.

[00108] As used herein, oligonucleotide sequences that are complementary to one or more of the genes described in Tables 1-5LL refer to oligonucleotides that are capable of hybridizing under stringent conditions to at least part of the nucleotide sequences of said genes, their encoded RNA or mRNA, or amplified versions of the RNA such as cRNA. Such hybridizable oligonucleotides will typically exhibit at least about 75% sequence identity at the nucleotide level to said genes, preferably about 80% or 85% sequence identity or more preferably about 90% or 95% or more sequence identity to said genes. [00109] "Bind(s) substantially" refers to complementary hybridization between a probe nucleic acid and a target nucleic acid and embraces minor mismatches that can be accommodated by reducing the stringency of the hybridization media to achieve the desired detection of the target polynucleotide sequence.

[00110] The terms "background" or "background signal intensity" refer to hybridization signals resulting from non-specific binding, or other interactions, between the labeled target nucleic acids and components of the oligonucleotide array (e.g., the oligonucleotide probes, control probes, the array substrate, etc.). Background signals may also be produced by intrinsic fluorescence of the array components themselves. A single background signal can be calculated for the entire array, or a different background signal may be calculated for each target nucleic acid. In a preferred embodiment, background is calculated as the average hybridization signal intensity for the lowest 5% to 10% of the probes in the array, or, where a different background signal is calculated for each target gene, for the lowest 5% to 10% of the probes for each gene. Of course, one of skill in the art will appreciate that where the probes to a particular gene hybridize well and thus appear to be specifically binding to a target sequence, they should not be used in a background signal calculation. Alternatively, background may be calculated as the average hybridization signal intensity produced by hybridization to probes that are not complementary to any sequence found in the sample (e.g. probes directed to nucleic acids of the opposite sense or to genes not found in the sample such as bacterial genes where the sample is mammalian nucleic acids). Background can also be calculated as the average signal intensity produced by regions of the array that lack any probes at all.

[00111] The phrase "hybridizing specifically to" or "specifically hybridizes" refers to the binding, duplexing, or hybridizing of a molecule substantially to or only to a particular nucleotide sequence or sequences under stringent conditions when that sequence is present in a complex mixture (e.g., total cellular) DNA or RNA.

[00112] Assays and methods of the invention may utilize available formats to simultaneously screen at least about 100, preferably about 1000, more preferably about 10,000 and most preferably about 100,000 or 1,000,000 or more different nucleic acid hybridizations.

[00113] As used herein a "probe" is defined as a nucleic acid, capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include natural (i.e., A, G, U, C, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in probes may be joined by a linkage other than a phosphodiester bond, so long as it does not interfere with hybridization. Thus, probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages.

[00114] The term "perfect match probe" refers to a probe that has a sequence that is perfectly complementary to a particular target sequence. The test probe is typically perfectly complementary to a portion (subsequence) of the target sequence. The perfect match (PM) probe can be a "test probe", a "normalization control" probe, an expression level control probe and the like. A perfect match control or perfect match probe is, however, distinguished from a "mismatch control" or "mismatch probe."

[00115] The terms "mismatch control" or "mismatch probe" refer to a probe whose sequence is deliberately selected not to be perfectly complementary to a particular target sequence. For each mismatch (MM) control in a high-density array there typically exists a corresponding perfect match (PM) probe that is perfectly complementary to the same particular target sequence. The mismatch may comprise one or more bases.

[00116] While the mismatch(es) may be located anywhere in the mismatch probe, terminal mismatches are less desirable as a terminal mismatch is less likely to prevent hybridization of the target sequence. In a particularly preferred embodiment, the mismatch is located at or near the center of the probe such that the mismatch is most likely to destabilize the duplex with the target sequence under the test hybridization conditions.

[00117] The term "stringent conditions" refers to conditions under which a probe will hybridize to its target subsequence, but with only insubstantial hybridization to other sequences or to other sequences such that the difference may be identified. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point (Tm) for the specific sequence at a defined ionic strength and pH.

[00118] Typically, stringent conditions will be those in which the salt concentration is at least about 0.01 to 1.0 M Na⁺ ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide.

[00119] The "percentage of sequence identity" or "sequence identity" is determined by comparing two optimally aligned sequences or subsequences over a comparison window or span, wherein the portion of the polynucleotide sequence in the comparison window may optionally comprise additions or deletions (i.e., gaps) as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. The percentage is calculated by determining the number of positions at which the identical submit (e.g. nucleic acid base or amino acid residue) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison and multiplying the result by 100 to yield the percentage of sequence identity. Percentage sequence identity when calculated using the programs GAP or BESTFIT (see below) is calculated using default gap weights.

Probe design

[00120] One of skill in the art will appreciate that an enormous number of array designs are suitable for the practice of this invention. The high density array will typically include a number of test probes that specifically hybridize to the sequences of interest. Probes may be produced from any region of the genes identified in the Tables and the attached representative sequence listing. In instances where the gene reference in the Tables is an EST, probes may be designed from that sequence or from other regions of the corresponding full-length transcript that may be available in any of the sequence databases, such as those herein described. See WO 99/32660 for methods of producing

probes for a given gene or genes. In addition, any available software may be used to produce specific probe sequences, including, for instance, software available from Molecular Biology Insights, Olympus Optical Co. and Biosoft International. In a preferred embodiment, the array will also include one or more control probes.

1001211 High density array chips of the invention include "test probes" Test probes

[00121] High density array chips of the invention include "test probes." Test probes may be oligonucleotides that range from about 5 to about 500, or about 7 to about 50 nucleotides, more preferably from about 10 to about 40 nucleotides and most preferably from about 15 to about 35 nucleotides in length. In other particularly preferred embodiments, the probes are 20 or 25 nucleotides in length. In another preferred embodiment, test probes are double or single strand DNA sequences such as cDNA fragments. DNA sequences are isolated or cloned from natural sources or amplified from natural sources using native nucleic acid as templates. These probes have sequences complementary to particular subsequences of the genes whose expression they are designed to detect. Thus, the test probes are capable of specifically hybridizing to the target nucleic acid they are to detect.

[00122] In addition to test probes that bind the target nucleic acid(s) of interest, the high density array can contain a number of control probes. The control probes may fall into three categories referred to herein as 1) normalization controls; 2) expression level controls; and 3) mismatch controls.

[00123] Normalization controls are oligonucleotide or other nucleic acid probes that are complementary to labeled reference oligonucleotides or other nucleic acid sequences that are added to the nucleic acid sample to be screened. The signals obtained from the normalization controls after hybridization provide a control for variations in hybridization conditions, label intensity, "reading" efficiency and other factors that may cause the signal of a perfect hybridization to vary between arrays. In a preferred embodiment, signals (e.g., fluorescence intensity) read from all other probes in the array are divided by the signal (e.g., fluorescence intensity) from the control probes thereby normalizing the measurements.

[00124] Virtually any probe may serve as a normalization control. However, it is recognized that hybridization efficiency varies with base composition and probe length. Preferred normalization probes are selected to reflect the average length of the other probes present in the array, however, they can be selected to cover a range of lengths. The normalization control(s) can also be selected to reflect the (average) base composition of

the other probes in the array, however in a preferred embodiment, only one or a few probes are used and they are selected such that they hybridize well (*i.e.*, no secondary structure) and do not match any target-specific probes.

[00125] Expression level controls are probes that hybridize specifically with constitutively expressed genes in the biological sample. Virtually any constitutively expressed gene provides a suitable target for expression level controls. Typically expression level control probes have sequences complementary to subsequences of constitutively expressed "housekeeping genes" including, but not limited to the actin gene, the transferrin receptor gene, the GAPDH gene, and the like.

[00126] Mismatch controls may also be provided for the probes to the target genes, for expression level controls or for normalization controls. Mismatch controls are oligonucleotide probes or other nucleic acid probes identical to their corresponding test or control probes except for the presence of one or more mismatched bases. A mismatched base is a base selected so that it is not complementary to the corresponding base in the target sequence to which the probe would otherwise specifically hybridize. One or more mismatches are selected such that under appropriate hybridization conditions (e.g., stringent conditions) the test or control probe would be expected to hybridize with its target sequence, but the mismatch probe would not hybridize (or would hybridize to a significantly lesser extent). Preferred mismatch probes contain a central mismatch. Thus, for example, where a probe is a 20 mer, a corresponding mismatch probe will have the identical sequence except for a single base mismatch (e.g., substituting a G, a C or a T for an A) at any of positions 6 through 14 (the central mismatch).

[00127] Mismatch probes thus provide a control for non-specific binding or cross hybridization to a nucleic acid in the sample other than the target to which the probe is directed. For example, if the target is present the perfect match probes should be consistently brighter than the mismatch probes. In addition, if all central mismatches are present, the mismatch probes can be used to detect a mutation, for instance, a mutation of a gene in the accompanying Tables 1-5LL. The difference in intensity between the perfect match and the mismatch probe provides a good measure of the concentration of the hybridized material.

Nucleic Acid Samples

[00128] Cell or tissue samples may be exposed to the test agent in vitro or in vivo. When cultured cells or tissues are used, appropriate mammalian cell extracts, such as liver cell

extracts, may also be added with the test agent to evaluate agents that may require biotransformation to exhibit toxicity.

[00129] The genes which are assayed according to the present invention are typically in the form of mRNA or reverse transcribed mRNA. The genes may or may not be cloned. The genes may or may not be amplified and cRNA produced. The cloning and/or amplification do not appear to bias the representation of genes within a population. In some assays, it may be preferable, however, to use polyA+ RNA as a source, as it can be used with less processing steps.

[00130] As is apparent to one of ordinary skill in the art, nucleic acid samples used in the methods and assays of the invention may be prepared by any available method or process. Methods of isolating total mRNA are well known to those of skill in the art. For example, methods of isolation and purification of nucleic acids are described in detail in Chapter 3 of Laboratory Techniques in Biochemistry and Molecular Biology, Vol. 24, Hybridization With Nucleic Acid Probes: Theory and Nucleic Acid Probes, P. Tijssen, Ed., Elsevier Press, New York, 1993. Such samples include RNA samples, but also include cDNA synthesized from a mRNA sample isolated from a cell or tissue of interest. Such samples also include DNA amplified from the cDNA, and RNA transcribed from the amplified DNA (cRNA). One of skill in the art would appreciate that it is desirable to inhibit or destroy RNase present in homogenates before homogenates are used.

[00131] Biological samples may be of any biological tissue or fluid or cells from any organism as well as cells raised *in vitro*, such as cell lines and tissue culture cells. Frequently the sample will be a tissue or cell sample that has been exposed to a compound, agent, drug, pharmaceutical composition, potential environmental pollutant or other composition. In some formats, the sample will be a "clinical sample" which is a sample derived from a patient. Typical clinical samples include, but are not limited to, sputum, blood, blood-cells (*e.g.*, white cells), tissue or fine needle biopsy samples, urine, peritoneal fluid, and pleural fluid, or cells therefrom. Biological samples may also include sections of tissues, such as frozen sections or formalin fixed sections taken for histological purposes.

Forming High Density Arrays

[00132] Methods of forming high density arrays of oligonucleotides with a minimal number of synthetic steps are known. The oligonucleotide analogue array can be synthesized on a single or on multiple solid substrates by a variety of methods, including,

but not limited to, light-directed chemical coupling, and mechanically directed coupling (see Pirrung, U.S. Patent No. 5,143,854).

[00133] In brief, the light-directed combinatorial synthesis of oligonucleotide arrays on a glass surface proceeds using automated phosphoramidite chemistry and chip masking techniques. In one specific implementation, a glass surface is derivatized with a silane reagent containing a functional group, e.g., a hydroxyl or amine group blocked by a photolabile protecting group. Photolysis through a photolithographic mask is used selectively to expose functional groups which are then ready to react with incoming 5' photoprotected nucleoside phosphoramidites. The phosphoramidites react only with those sites which are illuminated (and thus exposed by removal of the photolabile blocking group). Thus, the phosphoramidites only add to those areas selectively exposed from the preceding step. These steps are repeated until the desired array of sequences have been synthesized on the solid surface. Combinatorial synthesis of different oligonucleotide analogues at different locations on the array is determined by the pattern of illumination during synthesis and the order of addition of coupling reagents.

[00134] In addition to the foregoing, additional methods which can be used to generate an array of oligonucleotides on a single substrate are described in PCT Publication Nos. WO 93/09668 and WO 01/23614. High density nucleic acid arrays can also be fabricated by depositing pre-made or natural nucleic acids in predetermined positions. Synthesized or natural nucleic acids are deposited on specific locations of a substrate by light directed targeting and oligonucleotide directed targeting. Another embodiment uses a dispenser that moves from region to region to deposit nucleic acids in specific spots.

Hybridization

[00135] Nucleic acid hybridization simply involves contacting a probe and target nucleic acid under conditions where the probe and its complementary target can form stable hybrid duplexes through complementary base pairing. See WO 99/32660. The nucleic acids that do not form hybrid duplexes are then washed away leaving the hybridized nucleic acids to be detected, typically through detection of an attached detectable label. It is generally recognized that nucleic acids are denatured by increasing the temperature or decreasing the salt concentration of the buffer containing the nucleic acids. Under low stringency conditions (e.g., low temperature and/or high salt) hybrid duplexes (e.g., DNA:DNA, RNA:RNA, or RNA:DNA) will form even where the annealed sequences are not perfectly complementary. Thus, specificity of hybridization is reduced at lower

stringency. Conversely, at higher stringency (e.g., higher temperature or lower salt) successful hybridization tolerates fewer mismatches. One of skill in the art will appreciate that hybridization conditions may be selected to provide any degree of stringency. [00136] In a preferred embodiment, hybridization is performed at low stringency, in this case in 6x SSPET at 37°C (0.005% Triton X-100), to ensure hybridization and then subsequent washes are performed at higher stringency (e.g., 1x SSPET at 37°C) to eliminate mismatched hybrid duplexes. Successive washes may be performed at increasingly higher stringency (e.g., down to as low as 0.25x SSPET at 37°C to 50°C) until a desired level of hybridization specificity is obtained. Stringency can also be increased by addition of agents such as formamide. Hybridization specificity may be evaluated by comparison of hybridization to the test probes with hybridization to the various controls that can be present (e.g., expression level control, normalization control, mismatch controls, etc.).

[00137] In general, there is a tradeoff between hybridization specificity (stringency) and signal intensity. Thus, in a preferred embodiment, the wash is performed at the highest stringency that produces consistent results and that provides a signal intensity greater than approximately 10% of the background intensity. Thus, in a preferred embodiment, the hybridized array may be washed at successively higher stringency solutions and read between each wash. Analysis of the data sets thus produced will reveal a wash stringency above which the hybridization pattern is not appreciably altered and which provides adequate signal for the particular oligonucleotide probes of interest.

Signal Detection

[00138] The hybridized nucleic acids are typically detected by detecting one or more labels attached to the sample nucleic acids. The labels may be incorporated by any of a number of means well known to those of skill in the art. See WO 99/32660.

Databases

[00139] The present invention includes relational databases, such as the Gene Logic ToxExpress[®] database, containing sequence information, for instance, for the genes of Tables 1-5LL, as well as gene expression information from tissue or cells exposed to various standard toxins, such as those herein described (see Tables 5-5LL). Databases may also contain information associated with a given sequence or tissue sample such as descriptive information about the gene associated with the sequence information (see

Tables 1 and 2), or descriptive information concerning the clinical status of the tissue sample, or the animal from which the sample was derived. The database may be designed to include different parts, for instance a sequence database and a gene expression database. Methods for the configuration and construction of such databases and computer-readable media to which such databases are saved are widely available, for instance, see U.S. Patent No. 5,953,727, which is herein incorporated by reference in its entirety.

[00140] The databases of the invention may be linked to an outside or external database such as GenBank (www.ncbi.nlm.nih.gov/entrez.index.html); KEGG (www.genome.ad.jp/kegg); SPAD (www.grt.kyushu-u.ac.jp/spad/index.html); HUGO (www.gene.ucl.ac.uk/hugo); Swiss-Prot (www.expasy.ch.sprot); Prosite (www.expasy.ch/tools/scnpsit1.html); OMIM (www.ncbi.nlm.nih.gov/omim); and GDB (www.gdb.org). In a preferred embodiment, as described in Tables 1-3, the external database is GenBank and the associated databases maintained by the National Center for Biotechnology Information (NCBI) (www.ncbi.nlm.nih.gov).

[00141] Any appropriate computer platform, user interface, etc. may be used to perform the necessary comparisons between sequence information, gene expression information and any other information in the database or information provided as an input. For example, a large number of computer workstations are available from a variety of manufacturers, such has those available from Silicon Graphics. Client/server environments, database servers and networks are also widely available and appropriate platforms for the databases of the invention.

[00142] The databases of the invention may be used to produce, among other things, ToxScreen[™] reports and electronic Northerns (E-NORTHERN[™], Gene Logic, Inc., Gaithersburg, MD) that allow the user to determine the cell type or tissue in which a given gene is expressed or allow determination of the abundance or expression level of a given gene in a particular tissue or cell, for instance, a cell or tissue sample exposed to a test compound.

[00143] The databases of the invention may also be used to present information identifying the expression level in a tissue or cell of a set of genes comprising one or more of the genes in Tables 5-5LL, comprising the step of comparing the expression level of at least one gene in Tables 5-5LL in a cell or tissue exposed to a test agent to the level of expression of the gene in the database. Such methods may be used to predict the toxic potential of a given compound by comparing the level of expression of a gene or genes in

Tables 5-5LL from a tissue or cell sample exposed to the test agent to the expression levels found in a control tissue or cell samples exposed to a standard toxin or cardiotoxin such as those herein described. Such methods may also be used in the drug or agent screening assays as described herein.

Kits

[00144] The invention further includes kits combining, in different combinations, high-density oligonucleotide arrays, reagents for use with the arrays, protein reagents encoded by the genes of the Tables, signal detection and array-processing instruments, gene expression databases and analysis and database management software described above. The kits may be used, for example, to predict or model the toxic response of a test compound, to monitor the progression of heart disease states, to identify genes that show promise as new drug targets and to screen known and newly designed drugs as discussed above.

[00145] The databases packaged with the kits are a compilation of expression patterns from human or laboratory animal genes and gene fragments (corresponding to the genes of Tables 1-5LL). In particular, the database software and packaged information that may contain the databases saved to a computer-readable medium include the expression results of Tables 1-5LL that can be used to predict toxicity of a test agent by comparing the expression levels of the genes of Tables 1-5LL induced by the test agent to the expression levels presented in Tables 5-5LL. In another format, database and software information may be provided in a remote electronic format, such as a website, the address of which may be packaged in the kit.

[00146] Databases and software designed for use with microarrays is discussed in PCT/US99/20449, filed September 8, 1999, Genomic Knowledge Discovery, PCT/IB00/00863, filed June 28, 2000, Biological Data Processing, and in Balaban *et al.*, U.S. Patent Nos. 6,229,911, a computer-implemented method for managing information, stored as indexed tables, collected from small or large numbers of microarrays, and 6,185,561, a computer-based method with data mining capability for collecting gene expression level data, adding additional attributes and reformatting the data to produce answers to various queries. Chee *et al.*, U.S. Patent No. 5,974,164, disclose a software-based method for identifying mutations in a nucleic acid sequence based on differences in probe fluorescence intensities between wild type and mutant sequences that hybridize to reference sequences.

[00147] The kits may be used in the pharmaceutical industry, where the need for early drug testing is strong due to the high costs associated with drug development, but where bioinformatics, in particular gene expression informatics, is still lacking. These kits will reduce the costs, time and risks associated with traditional new drug screening using cell cultures and laboratory animals. The results of large-scale drug screening of pre-grouped patient populations, pharmacogenomics testing, can also be applied to select drugs with greater efficacy and fewer side-effects. The kits may also be used by smaller biotechnology companies and research institutes who do not have the facilities for performing such large-scale testing themselves.

[00148] Without further description, it is believed that one of ordinary skill in the art can, using the preceding description and the following illustrative examples, make and utilize the compounds of the present invention and practice the claimed methods. The following working examples therefore, specifically point out the preferred embodiments of the present invention, and are not to be construed as limiting in any way the remainder of the disclosure.

EXAMPLES

EXAMPLE 1: IDENTIFICATION OF TOXICITY MARKERS

[00149] The cardiotoxins adriamycin, amphotericin B, epirubicin, phenylpropanolamine, and rosiglitazone were administered to male Sprague-Dawley rats at various time points using administration diluents, protocols, and dosing regimes as indicated in Table 6. The cardiotoxins and control compositions, including cyclophosphamide, ifosfamide, minoxidil, hydralazine, BI-QT, clenbuterol, isoproterenol, norepinephrine, and epinephrine were administered to male Sprague-Dawley rats at various time points using administration diluents, protocols and dosing regimes as previously described in the art and previously described in the priority applications discussed above. The low and high dose level for each compound are provided in the chart below.

Heart Toxin	Low Dose (mg/kg)	High Dose (mg/kg)
Cyclophosphamide	20	200
Ifosfamide	5	100
Minoxidil	12 mg/L	120 mg/L
Hydralazine	2.5	25
BI-QT	10	50
Clenbuterol	0.4	4
Isoproterenol	0.05	0.5
Norepinephrine	0.05	0.5
Epinephrine	0.1	1

Heart Toxin	Low Dose (mg/kg)	High Dose (mg/kg)
Adriamycin	1.3	12.8
Amphotericin B	0.25	2.5
Epirubicin	1.2	12
Phenylpropanolamine	6.4	64
Rosiglitazone	. 18	180
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[00150] After administration, the dosed animals were observed and tissues were collected as described below:

Observation of Animals

[00151] 1. Clinical Observations- Twice daily: mortality and moribundity check. Cage Side Observations - skin and fur, eyes and mucous membrane, respiratory system, circulatory system, autonomic and central nervous system, somatomotor pattern, and behavior pattern. Potential signs of toxicity, including tremors, convulsions, salivation, diarrhea, lethargy, coma or other atypical behavior or appearance, were recorded as they occurred and included a time of onset, degree, and duration.

[00152] 2. Physical Examinations- Prior to randomization, prior to initial treatment, and prior to sacrifice.

[00153] 3. Body Weights- Prior to randomization, prior to initial treatment, and prior to sacrifice.

Clinical Pathology

[00154] 1. Frequency

Prior to necropsy.

[00155] 2. Number of animals

All surviving animals.

[00156] 3. Bleeding Procedure

Blood was obtained by puncture of the orbital

sinus while under 70% CO₂/ 30% O₂ anesthesia.

[00157] 4. Collection of Blood Samples Approximately 0.5 mL of blood was collected into EDTA tubes for evaluation of hematology parameters. Approximately 1 mL of blood was collected into serum separator tubes for clinical chemistry analysis.

Approximately 200 μL of plasma was obtained and frozen at ~-80°C for test compound/metabolite estimation. An additional ~2 mL of blood was collected into a 15 mL conical polypropylene vial to which ~3 mL of Trizol was immediately added. The contents were immediately mixed with a vortex and by repeated inversion. The tubes were frozen in liquid nitrogen and stored at ~-80°C.

Termination Procedures

Terminal Sacrifice

[00158] At the sampling times indicated in Tables 5A-5LL and Table 6 for each cardiotoxin, and as previously described in the related applications mentioned above, rats were weighed, physically examined, sacrificed by decapitation, and exsanguinated. The animals were necropsied within approximately five minutes of sacrifice. Separate sterile, disposable instruments were used for each animal, with the exception of bone cutters, which were used to open the skull cap. The bone cutters were dipped in disinfectant solution between animals.

[00159] Necropsies were conducted on each animal following procedures approved by board-certified pathologists.

[00160] Animals not surviving until terminal sacrifice were discarded without necropsy (following euthanasia by carbon dioxide asphyxiation, if moribund). The approximate time of death for moribund or found dead animals was recorded.

Postmortem Procedures

[00161] Fresh and sterile disposable instruments were used to collect tissues. Gloves were worn at all times when handling tissues or vials. All tissues were collected and frozen within approximately 5 minutes of the animal's death. The liver sections and kidneys were frozen within approximately 3-5 minutes of the animal's death. The time of euthanasia, an interim time point at freezing of liver sections and kidneys, and time at completion of necropsy were recorded. Tissues were stored at approximately -80°C or preserved in 10% neutral buffered formalin.

Tissue Collection and Processing

[00162] Liver-

- 1. Right medial lobe snap frozen in liquid nitrogen and stored at ~-80°C.
- 2. Left medial lobe Preserved in 10% neutral-buffered formalin (NBF) and evaluated for gross and microscopic pathology.
- 3. Left lateral lobe snap frozen in liquid nitrogen and stored at ~-80°C.

[00163] Heart-

A sagittal cross-section containing portions of the two atria and of the two ventricles was preserved in 10% NBF. The remaining heart was frozen in liquid nitrogen and stored at \sim -80°C.

[00164] Kidneys (both)-

1. Left – Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at \sim -80°C.

2. Right – Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at \sim -80°C.

[00165] Testes (both)-

A sagittal cross-section of each testis was preserved in 10% NBF. The remaining testes were frozen together in liquid nitrogen and stored at ~-80°C.

[00166] Brain (whole)-

A cross-section of the cerebral hemispheres and of the diencephalon was preserved in 10% NBF, and the rest of the brain was frozen in liquid nitrogen and stored at ~ -80°C. [00167] Microarray sample preparation was conducted with minor modifications, following the protocols set forth in the Affymetrix GeneChip Expression Analysis Manual. Frozen tissue was ground to a powder using a Spex Certiprep 6800 Freezer Mill. Total RNA was extracted with Trizol (GibcoBRL) utilizing the manufacturer's protocol. The total RNA yield for each sample was 200-500 μg per 300 mg tissue weight. mRNA was isolated using the Oligotex mRNA Midi kit (Qiagen) followed by ethanol precipitation. Double stranded cDNA was generated from mRNA using the SuperScript Choice system (GibcoBRL). First strand cDNA synthesis was primed with a T7-(dT24) oligonucleotide. The cDNA was phenol-chloroform extracted and ethanol precipitated to a final concentration of 1 μg/ml. From 2 μg of cDNA, cRNA was synthesized using Ambion's T7 MegaScript in vitro Transcription Kit.

[00168] To biotin label the cRNA, nucleotides Bio-11-CTP and Bio-16-UTP (Enzo Diagnostics) were added to the reaction. Following a 37°C incubation for six hours, impurities were removed from the labeled cRNA following the RNeasy Mini kit protocol (Qiagen). cRNA was fragmented (fragmentation buffer consisting of 200 mM Trisacetate, pH 8.1, 500 mM KOAc, 150 mM MgOAc) for thirty-five minutes at 94°C. Following the Affymetrix protocol, 55 µg of fragmented cRNA was hybridized on the Affymetrix rat array set for twenty-four hours at 60 rpm in a 45°C hybridization oven. The chips were washed and stained with Streptavidin Phycocrythrin (SAPE) (Molecular Probes) in Affymetrix fluidics stations. To amplify staining, SAPE solution was added twice with an anti-streptavidin biotinylated antibody (Vector Laboratories) staining step in between. Hybridization to the probe arrays was detected by fluorometric scanning (Hewlett Packard Gene Array Scanner). Data was analyzed using Affymetrix GeneChip®

version 2.0 and Expression Data Mining (EDMT) software (version 1.0), Gene Logic's GeneExpress® 2000 software and S-PlusTM software.

[00169] Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession and Sequence Identification numbers, the identities of the metabolic pathways in which the genes function, the gene names if known, and the Unigene Cluster titles. The human homologues of the rat genes in Tables 1 and 2 are indicated in Table 3. The model codes in Tables 1-3 represent the various toxicity or heart pathology states that differential expression of each gene is able to identify, as well as the individual toxin or toxin type associated with differential expression of each gene. The model codes are defined in Table 4. The GLGC ID is the internal Gene Logic identification number.

[00170] Tables 5A-5LL disclose a set of genes, along with the summary statistics for each of the comparisons performed as indicated in these tables, *i.e.*, expression levels of a particular gene in toxicity group samples compared to non-toxicity group samples in response to exposure to a particular toxin, or as measured in a particular disease state. Each of these tables contains a set of predictive genes and creates a model for predicting the cardiotoxicity of an unknown, *i.e.*, untested compound. Each gene is identified by its Gene Logic identification number and can be cross-referenced to a gene name and representative sequence identification number in Tables 1 and 2 or in one or more related applications, as mentioned on page 1.

[00171] For each comparison of gene expression levels between samples in the toxicity group (samples affected by exposure to a specific toxin) and samples in the non-toxicity group (samples not affected by exposure to that same specific toxin), the tox mean (for toxicity group samples) is the mean signal intensity, as normalized for the various chip parameters that are being assayed. The non-tox mean represents the mean signal intensity, as normalized for the various chip parameters that are being assayed, in samples from animals other than those treated with the high dose of the specific toxin. These animals were treated with a low dose of the specific toxin, or with vehicle alone, or with a different toxin. Samples in the toxicity groups were obtained from animals sacrificed at the time point(s) indicated in the Table 5-5LL headings, while samples in the non-toxicity groups were obtained from animals sacrificed at all time points in the experiments. For individual genes, an increase in the tox mean compared to the non-tox mean indicates up-regulation

upon exposure to a toxin. Conversely, a decrease in the tox mean compared to the non-tox mean indicates down-regulation.

[00172] The mean values are derived from Average Difference (AveDiff) values for a particular gene, averaged across the corresponding samples. Each individual Average Difference value is calculated by integrating the intensity information from multiple probe pairs that are tiled for a particular fragment. The normalization multiplies each expression intensity for a given experiment (chip) by a global scaling factor. The intent of this normalization is to make comparisons of individual genes between chips possible. The scaling factor is calculated as follows:

[00173] 1. From all the unnormalized expression values in the experiment, delete the largest 2% and smallest 2% of the values. That is, if the experiment yields 10,000 expression values, order the values and delete the smallest 200 and largest 200.

[00174] 2. Compute the trimmed mean, which is equal to the mean of the remaining values.

[00175] 3. Compute the scale factor SF = 100/(trimmed mean)

[00176] Values greater than 2.0* SD noise are assumed to come from expressers. For these values, the standard deviation SD log (signal) of the logarithms is calculated. The logarithms are then multiplied by a scale factor proportional to 1/SD log (signal) and exponentiated. The resulting values are then multiplied by another scale factor, chosen so there will be no discontinuity in the normalized values from unscaled values on either side of 2.0* SD noise. Some AveDiff values may be negative due to the general noise involved in nucleic acid hybridization experiments. Although many conclusions can be made corresponding to a negative value on the GeneChip platform, it is difficult to assess the meaning behind the negative value for individual fragments. Our observations show that, although negative values are observed at times within the predictive gene set, these values reflect a real biological phenomenon that is highly reproducible across all the samples from which the measurement was taken. For this reason, those genes that exhibit a negative value are included in the predictive set. It should be noted that other platforms of gene expression measurement may be able to resolve the negative numbers for the corresponding genes. The predictive ability of each of those genes should extend across platforms, however. Each mean value is accompanied by the standard deviation for the mean. The linear discriminant analysis score (discriminant score, or LDA), as disclosed in

the tables, measures the ability of each gene to predict whether or not a sample is toxic. The discriminant score is calculated by the following steps:

Calculation of a discriminant score

[00177] Let X_i represent the AveDiff values for a given gene across the non-tox samples, i=1...n.

[00178] Let Y_i represent the AveDiff values for a given gene across the tox samples, i=1...t.

[00179] The calculations proceed as follows:

[00180] 1. Calculate mean and standard deviation for X_i 's and Y_i 's, and denote these by m_X , m_Y , s_X , s_Y .

[00181] 2. For all X_i's and Y_i's, evaluate the function $f(z) = ((1/s_Y) * \exp(-0.5 * ((z-m_Y)/s_Y)^2)) / (((1/s_Y) * \exp(-0.5 * ((z-m_Y)/s_Y)^2)) + ((1/s_X) * \exp(-0.5 * ((z-m_X)/s_X)^2))).$

[00182] 3. The number of correct predictions, say P, is then the number of Y_i 's such that $f(Y_i) > .5$ plus the number of X_i 's such that $f(X_i) < 0.5$.

[00183] 4. The discriminant score is then P/(n+t).

[00184] Linear discriminant analysis uses both the individual measurements of each gene and the calculated measurements of all combinations of genes to classify samples. For each gene a weight is derived from the mean and standard deviation of the toxic and nontox groups. Every gene is multiplied by a weight and the sum of these values results in a collective discriminate score. This discriminant score is then compared against collective centroids of the tox and nontox groups. These centroids are the average of all tox and nontox samples respectively. Therefore, each gene contributes to the overall prediction. This contribution is dependent on weights that are large positive or negative numbers if the relative distances between the tox and nontox samples for that gene are large and small numbers if the relative distances are small. The discriminant score for each unknown sample and centroid values can be used to calculate a probability between zero and one as to the group in which the unknown sample belongs.

EXAMPLE 2: GENERAL TOXICITY MODELING

[00185] Samples were selected for grouping into tox-responding and non-tox-responding groups by examining each study individually with Principal Components Analysis (PCA) to determine which treatments had an observable response. Only groups where confidence

of their tox-responding and non-tox-responding status was established were included in building a general tox model (Tables 5A-5LL).

[00186] Linear discriminant models were generated to describe toxic and non-toxic samples. The top discriminant genes and/or EST's were used to determine toxicity by calculating each gene's contribution with homo and heteroscedastic treatment of variance and inclusion or exclusion of mutual information between genes. Prediction of samples within the database exceeded 80% true positives with a false positive rate of less than 5%. It was determined that combinations of genes and/or EST's generally provided a better predictive ability than individual genes and that the more genes and/or EST used the better predictive ability. Although the preferred embodiment includes fifty or more genes, many pairings or greater combinations of genes and/or EST can work better than individual genes. All combinations of two or more genes from the selected list (Tables 5A-5LL) could be used to predict toxicity. These combinations could be selected by pairing in an agglomerate, divisive, or random approach. Further, as yet undetermined genes and/or EST's could be combined with individual or combination of genes and/or EST's described here to increase predictive ability. However, the genes and/or EST's described here would contribute most of the predictive ability of any such undetermined combinations. [00187] Other variations on the above method can provide adequate predictive ability. These include selective inclusion of components via agglomerate, divisive, or random approaches or extraction of loading and combining them in agglomerate, divisive, or random approaches. Also the use of composite variables in logistic regression to determine classification of samples can also be accomplished with linear discriminate analysis, neural or Bayesian networks, or other forms of regression and classification

EXAMPLE 3: MODELING WITH CORE GENE SET

based on categorical or continual dependent and independent variables.

[00188] As described in Examples 1 and 2, above, the data collected from microarray hybridization experiments were analyzed by LDA and by PCA. The genes in Tables 5G, 5I, 5K, 5M, 5O, 5Q, 5T, 5V, 5X, 5Z, 5BB, 5DD, 5FF, and 5KK constitute a core set of markers for predicting the cardiotoxicity of a compound, whereas the genes in Tables 5H, 5J, 5L, 5N, 5P, 5S, 5U, 5W, 5Y, 5AA, 5CC and 5EE constitute an alternative set of markers. The core marker tables comprise genes that are also found in PCT Application No. PCT/US02/21735, whereas the alternate marker tables do not comprise genes also found in the '735 application. Each gene fragment in Tables 1-5LL is assigned an LDA

score, and those gene fragments in the core set are those with the highest LDA scores. The gene fragments in Tables 5A-5LL were determined to give greater than 80% true positive results and less than 5% false positive results. Gene expression profiles prepared or obtained from expression data for these genes, in the presence and absence of toxin treatment, can be used a controls in assays of compounds whose toxic properties have not been examined. Comparison of data from test compound-exposed and test compound-unexposed animals with the data in Tables 5A-5LL allows the prediction of toxic effects-or no toxic effects- upon exposure to the test compound. Thus, the marker gene sets can be used to examine the biological effects of a compound whose toxic properties following exposure are not known and to predict the toxicity in cardiac tissue of this compound.

EXAMPLE 4: MODELING METHODS

[00189] The above modeling methods provide broad approaches of combining the expression of genes to predict sample toxicity. One could also provide no weight in a simple voting method or determine weights in a supervised or unsupervised method using agglomerate, divisive, or random approaches. All or selected combinations of genes may be combined in ordered, agglomerate, or divisive, supervised or unsupervised clustering algorithms with unknown samples for classification. Any form of correlation matrix may also be used to classify unknown samples. The spread of the group distribution and discriminate score alone provide enough information to enable a skilled person to generate all of the above types of models with accuracy that can exceed discriminate ability of individual genes. Some examples of methods that could be used individually or in combination after transformation of data types include but are not limited to: Discriminant Analysis, Multiple Discriminant Analysis, robust multi-array average (RMA) analysis, partial least squares (PLS) analysis, logistic regression, multiple regression analysis, linear regression analysis, conjoint analysis, canonical correlation, hierarchical cluster analysis, k-means cluster analysis, self-organizing maps, multidimensional scaling, structural equation modeling, support vector machine determined boundaries, factor analysis, neural networks, bayesian classifications, and resampling methods.

EXAMPLE 5: INDIVIDUAL COMPOUND MARKERS

[00190] Samples were grouped into individual pathology classes based on known toxicological responses and observed clinical chemical and pathology measurements or into early and late phases of observable toxicity within a compound (Tables 1-5LL). The

top 10, 25, 50, 100 genes based on individual discriminate scores were used in a model to ensure that combination of genes provided a better prediction than individual genes. As described above, all combinations of two or more genes from this list could potentially provide better prediction than individual genes when selected in any order or by ordered, agglomerate, divisive, or random approaches. In addition, combining these genes with other genes could provide better predictive ability, but most of this predictive ability would come from the genes listed herein.

[00191] Samples may be considered toxic if they score positive in any individual compound represented here or in any modeling method mentioned under general toxicology models based on combination of individual time and dose grouping of individual toxic compounds obtainable from the data. Most logical groupings with one or more genes and one or more sample dose and time points should produce better predictions of general toxicity or similarity to known toxicant than individual genes.

[00192] Although the present invention has been described in detail with reference to examples above, it is understood that various modifications can be made without departing from the spirit of the invention. Accordingly, the invention is limited only by the following claims. All cited patents, patent applications and publications referred to in this application are herein incorporated by reference in their entirety.

TABLE 1			· · · · · · · · · · · · · · · · · · ·	2 (A**	Atty. Ref. 44921-5090-01-WO/2105485
SEO ID		GenBank Acc.	11-1-1	V	
-			Model Code	Known Gene Name	Unigene Sequence Cluster Title
13	25120	A03913	<u> </u>		
4	6047	A A D4 D700		E	ESTs, Highly similar to splicing factor 3b, subunit 1
14		AA012709	b		155 kDa [Mus musculus] [M.musculus]
16		AA108277	e		
10	25103	AA685876	cc,dd		
17	25404	A 605000	l		ESTs, Weakly similar to HS9B_RAT Heat shock
17 18		AA685903 AA686870	d,e,r		protein HSP 90-beta (HSP 84) [R.norvegicus]
10	14300	AA00007U	jj,kk		ESTs
10	10222	A A 700 270	6 ~		ESTs, Highly similar to mitochondrial carrier
19		AA799279 AA799294	f,g		homolog 2 [Mus musculus] [M.musculus]
- 20	10272	AA799294	e		ESTs
21	22646	AA799301	d		ESTs, Highly similar to LIGA_MOUSE Ligatin
22		AA799301 AA799325	ji,kk		[M.musculus] ESTs
	21337	MAI 33323	JJ,KK		
					ESTs, Weakly similar to T47122 cell division protein
23	18306	AA799330	2004		pelota [imported] - fruit fly (Drosophila
24		AA799396	a,p,q,y p,q		melanogaster) [D.melanogaster] ESTs
24		AA799396			
25		AA799397	b,p,q b,l,m		ESTs ESTs
	13004	M 33331	1,111		
26	6581	AA799412	e		ESTs, Weakly similar to 167424 hERR-2 homolog -
27		AA799420	h,l		rat (fragment) [R.norvegicus] ESTs
28		AA799423	11,1	nexilin	nexilin
	2002	AA133423	11	Hexiliti	ESTs, Weakly similar to S68418 protein
!					phosphatase 1M chain M110 isoform - rat
29	17137	AA799438	ee,ff,jj,kk		(fragment) [R.norvegicus]
30		AA799442	cc,dd,gg		ESTs
31		AA799448	e		ESTs
					ESTs, Highly similar to TELT_MOUSE Telethonin
32	18706	AA799471	d		(Titin cap protein) [M.musculus]
					(Truit cap protein) [wi.thusculus]
					ESTs, Moderately similar to AD16_HUMAN Protein
33	23294	AA799472	b		AD-016 (Protein CGI-116) (x0009) [H.sapiens]
34	11350	AA799488	cc,dd,li		ESTs
					ESTs, Highly similar to T46500 hypothetical protein
35	8289	AA799494	е		DKFZp434D098.1 - human (fragment) [H.sapiens]
36	18290	AA799497	hh		ESTs
					ESTs, Weakly similar to DDRT helix-destabilizing
37	17612	AA799511	lt		protein - rat [R.norvegicus]
					ESTs, Highly similar to hypothetical protein
					FLJ13725; KIAA1930 protein [Homo sapiens]
38	15303	AA799518	w,x		[H.sapiens]
		-~_			
					ESTs, Highly similar to ITMB_MOUSE Integral
39	16942	AA799520	е		membrane protein 2B (E25B protein) [M.musculus]
					ESTs, Highly similar to RIKEN cDNA 1700043E15
40	21120	AA799526	p,q,gg		[Mus musculus] [M.musculus]
		Ι			ESTs, Weakly similar to M18.3.p [Caenorhabditis
41	17687	AA799531	g		elegans] [C.elegans]
					ESTs, Weakly similar to M18.3.p [Caenorhabditis
41	17688	AA799531	f,g		elegans] [C.elegans]
]	T			ESTs, Highly similar to SFR2_MOUSE Splicing
	l	1			factor, arginine/serine-rich 2 (Splicing factor SC35)
42		AA799538	_		(SC-35) (Splicing component, 35 kDa) (PR264
			s,t		protein) [M.musculus]

TABLE 1			· · · · ·	Maria de la compansión de	Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc, No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Weakly similar to KEAP_RAT Kelch-like ECH
43	17500	AA799539			associated protein 1 (Cytosolic inhibitor of Nrf2) (INrf2) [R.norvegicus]
43		AA799542	ii		(INDZ) [R.norvegicus] ESTs
45		AA799569	d .		ESTs
	11000	AA1 33303	<u>.</u>		15018
46	17212	AA799571			Rattus norvegicus mRNA for ribosomal protein L35
47	20971	AA799576	С		ESTs, Highly similar to T46259 hypothetical protein DKFZp761E0323.1 - human (fragment) [H.sapiens]
48		AA799580	r,jj,kk		ESTs
49		AA799598	f,g		ESTs
50		AA799599	cc,dd		ESTs
51		AA799600	ii		ESTs, Highly similar to hypothetical protein DKFZp586l021 [Homo sapiens] [H.sapiens]
52		AA799601	111		ESTs
53		AA799607	h,I		ESTs
54		AA799612	W,X	ubiquitin conjugating enzyme	ubiquitin conjugating enzyme
	11300	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1447	designation conjugating enzyme	ESTs, Moderately similar to sirtuin 2 (silent mating
					type information regulation 2, homolog) 2 (S.
55	18333	AA799614	e		cerevisiae) [Rattus norvegicus] [R.norvegicus]
	10000	AA1 330 14	-		ESTs, Moderately similar to hypothetical protein
56	20080	AA799633	l,m		MGC13016 [Homo sapiens] [H.sapiens]
57		AA799636	γ		ESTs
31	20901	AA7 33030	у		E018
					ECTs. Weakly similar to AEEO71 bydrogon porovido
58	20002	4 4 7 00002	_ u	•	ESTs, Weakly similar to A55071 hydrogen peroxide-
	20092	AA799637	r,li		inducible protein hic-5 - mouse [M.musculus]
50	40000	A A 7000 A4			ESTs, Moderately similar to I53063 testicular tumor
59	18226	AA799641	1		overexpressed protein - mouse [M.musculus] ESTs, Weakly similar to S68418 protein
60	20092	AA799657	4 0 11		phosphatase 1M chain M110 isoform - rat
00	20902	AAI 9903I	d,e,ii		(fragment) [R.norvegicus] ESTs, Highly similar to S37488 gene T10 protein -
61	17750	AA799663	c,hh		mouse [M.musculus]
- 01	11133	AA1 33003	(C ₁ (11)		ESTs, Highly similar to S37488 gene T10 protein -
61	17760	AA799663	_		
01	17700	AA199003	С		mouse [M.muscutus] ESTs, Highly similar to RPB9_HUMAN DNA-
					directed RNA polymerase II 14.5 kDa polypeptide
62	20004	AA799717	20 44		
- 02	20954	AAIBBIII	cc,dd		(RPB9) (RPB14.5) [H.sapiens]
				Phosphodiesterase 4B, cAMP-	ESTs, Phosphodiesterase 4B, cAMP-specific
				specific (dunce (Drosophila)-	(dunce (Drosophila)-homolog phosphodiesterase
63	1/250	AA799729	j,k	homolog phosphodiesterase E4)	
64		AA799735	r r	RuvB-like protein 1	RuvB-like protein 1
65		AA799735 AA799744	ļ	Land-like bloteit i	ESTs
66		AA799744 AA799751	j,p,q,y,z		ESTs
	11434	LAN 991 91	W,X		ESTs, Weakly similar to carboxypeptidase E
67	17975	AA799755	cc.dd		, , ,
68		AA799755 AA799762			[Rattus norvegicus] [R.norvegicus] ESTs
69		AA799764	e,p,q,ii hh		ESTs
70		AA799764 AA799771	u,jj,kk		ESTs
- 10	10300	ווופנות	a,o,q,y,ee,ff,hh		ESTs, Weakly similar to A37098 gelation factor
71	11520	AA799773			
· · · · · ·	11000	רו ופפ ואת	,jj,kk		ABP-280, long form - human [H.sapiens]
71	. 44524	Α Α ΤΩΩΤΤΟ	2007 ff bb bl-	`	ESTs, Weakly similar to A37098 gelation factor
72		AA799773 AA799784	a,o,q,z,ff,hh,kk		ABP-280, long form - human [H.sapiens]
12	0420	M 33104	f,aa,bb		ESTs Moderately similar to IE/IEE2 hypothetical
מק	12002	A A 700700		L'Unicell distalac	ESTs, Moderately similar to I54552 hypothetical
73	13003	AA799788	e	HHs:cell division cycle 34	serine proteinase - rat [R.norvegicus]

	1 9:45	IConBook Acc	 		Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	ozoo ip	1.40.	IVIOGEI COGE	, I diowit Gene Name	
	ł			1	ESTs, Weakly similar to JC6554 complement
74	20008	AA799803	him		subcomponent C1s (EC 3.4.21.42) precursor
75	1/50/	AA799804	b,l,m	 	[similarity] - rat [R.norvegicus]
7.3	14304	AA799604	f,g,cc,dd		ESTs
					ESTs, Moderately similar to PTN3_HUMAN Protein
		ŀ			
76	11422	AA799812	a,ee,ff,jj,kk		tyrosine phosphatase, non-receptor type 3 (Protein-
	11722	777733012	10,66,11,)),	 	tyrosine phosphatase H1) (PTP-H1) [H.sapiens]
					ESTs, Moderately similar to PTN3_HUMAN Protein
					tyrosine phosphatase, non-receptor type 3 (Protein-
76	11423	AA799812	a,jj,kk,ll		tyrosine phosphatase H1) (PTP-H1) [H.sapiens]
					Tyrosino priosprioteos TTY (FTT TTY) [Titodpicto]
	,				ESTs, Highly similar to T46306 hypothetical protein
77	21000	AA799816	h,i		DKFZp434D2411.1 - human (fragment) [H.sapiens]
78	21002	AA799832	99		ESTs
					ESTs, Highly similar to IRF7_MOUSE Interferon
79	21007	AA799861	d		regulatory factor 7 (IRF-7) [M.musculus]
					ESTs, Highly similar to nuclear localization signal
					protein absent in velo-cardio-facial patients [Mus
80	18378	AA799888	hh	L	musculus] [M.musculus]
					ESTs, Highly similar to DDRT helix-destabilizing
81		AA799893	hh		protein - rat [R.norvegicus]
82	21027	AA799964	h		ESTs
83	18400	AA799991	aa,bb		ESTs
					ESTs, Moderately similar to predicted gene
					ICRFP703B1614Q5.6; ICRFP703N2430Q5.6;
84	18881	AA799992	c,h,l,n,o,w,x		C11orf17 [Mus musculus] [M.musculus]
					ESTs, ESTs, Moderately similar to predicted gene
					ICRFP703B1614Q5.6; ICRFP703N2430Q5.6;
84			c,n,o,kk		C11orf17 [Mus musculus] [M.musculus]
85	16712	AA800015	e	integrin-linked kinase	integrin-linked kinase
					ESTs, Weakly similar to Yeast ABD1 protein like
86			cc,dd		[Caenorhabditis elegans] [C.elegans]
87			s,t		ESTs
88		AA800036	f,jj,kk,ll		ESTs
89		AA800062	li .		ESTs
90	13568	AA800169	h,I		ESTs
24	24005				ESTs, Highly similar to NOC4_MOUSE Neighbor of
91	21065	AA800179	s,t		COX4 [M.musculus]
- 1	1				ESTs, Highly similar to S37300 glycogen
00	4000			HHs:phosphorylase, glycogen;	phosphorylase (EC 2.4.1.1), brain - rat
92			a,e,ii,kk	brain	[R.norvegicus]
93			f,g		ESTs
94			gg 		ESTs
95		AA800200	l,m,ee,ff,jj,kk		ESTs
96			s,t		ESTs
97		·	hh,jj,kk		ESTs
98 99			g,bb		ESTs
33	4130	AA800298	c,g,kk		ESTs
100	21000	V V 80030E	aa dd		ESTs, Moderately similar to RB5A_HUMAN Ras-
100	21000	AA800305	cc,dd		related protein Rab-5A [H.sapiens]
1	ĺ				ESTs, Moderately similar to IC1_MOUSE Plasma
101	24220	A A 900349	h m		protease C1 inhibitor precursor (C1 Inh) (C1Inh)
101			b,m		[M.musculus]
102			r,ii	Dno I like no (c)	ESTs
			e,ee,ff,ii	DnaJ-like protein	DnaJ-like protein
404					
104 105			j,k,p,q,y,z f,g		EST ESTs

GC ID 17997	GenBank Acc. No. AA800671 AA800673	Model Code u		Unigene Sequence Cluster Title
17997 5257 23368	AA800671			Uniquie Sequence Cluster Tille
5257 23368		u		
5257 23368		u		ESTs, Moderately similar to A54854 Ras GTPase
5257 23368		lu		activating protein-related protein - human
23368	AA800673	1		[H.sapiens]
23368	AA800673			ESTs, Highly similar to KIAA0164 gene product
		S		[Homo sapiens] [H.sapiens]
213//		a,j,k,jj,kk		ESTs
	AA800/19	w,x		ESTs Weekly in Table VIII 4 MOUSE VIII - 4
47040	A A 00070E			ESTs, Weakly similar to VIL1_MOUSE Villin 1
1/648	AA800735	cc,dd		[M.musculus] ESTs, Weakly similar to VIL1_MOUSE Villin 1
47040	A A 000725		į	· · ·
				[M.musculus]
				ESTs
				ESTs
12/9/	AA800790	p,q		ESTs Madagately similar to LVOV DAT Destain
- 1				ESTs, Moderately similar to LYOX_RAT Protein-
22222				lysine 6-oxidase precursor (Lysyl oxidase)
		g		[R.norvegicus]
17658	AA800853	d,j,k,s,t		ESTs
		1		ESTs, ESTs, Highly similar to MLF2_MOUSE
				Myeloid leukemia factor 2 (Myelodysplasia-myeloid
				leukemia factor 2) [M.musculus]
15213	AA800908	hh		ESTs
				ESTs, Highly similar to S11661 talin - mouse
21416	AA800962	hh		[M.musculus]
		 	9, subfamily A1	aldehyde dehydrogenase family 9, subfamily A1
12086	AA801116	a		ESTs
40050		ļ		diff. I have been been been been been been been be
				growth factor receptor bound protein 2
23115	AA801165	C	Testis-specific histone 2a	Testis-specific histone 2a
				ESTs, Highly similar to P52K_HUMAN 52 kDa
			1	repressor of the inhibitor of the protein kinase
				(p58IPK-interacting protein) (58 kDa interferon-
				Induced protein kinase-interacting protein)
24 407	A A 004404			
				(P52rIPK) (Death associated protein 4) [H.sapiens] ESTs
				ESTs
10549	AA601255	I,KK		ESTS, Weakly similar to TAC1_HUMAN
		1	· ·	Transforming acidic coiled-coil-containing protein 1
42200	A A GO 4 GO 7	"		•
				[H.sapiens] ESTs
10300	AA001310	e		ESTs, Weakly similar to plexin B3; plexin 6 [Mus
11460	A A 901246			
11100	AA801346	n,o		musculus] [M.musculus] ESTs, Moderately similar to S63540 protein DS 1,
	A A QO1252			24K - human [H.sapiens]
11005		n,o		ESTs
11995		166		ESTs
24237	AA817726	kk		
24237 18796	AA817726 AA817761	е		
24237 18796	AA817726			ESTs
24237 18796	AA817726 AA817761	е	HHed IDP Call-hata Clobiac hata	ESTs ESTs, Weakly similar to glycoprotein
24237 18796	AA817726 AA817761	е	HHs:UDP-Gal:betaGlcNAc beta	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT;
24237 18796 23725	AA817726 AA817761 AA817816	e a	1,4- galactosyltransferase,	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta
24237 18796 23725	AA817726 AA817761	е	1,4- galactosyltransferase, polypeptide 2	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta 1,4-GalT1 [Mus musculus] [M.musculus]
24237 18796 23725	AA817726 AA817761 AA817816 AA817823	e a ii	1,4- galactosyltransferase, polypeptide 2 potassium channel, subfamily K,	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta 1,4-GalT1 [Mus musculus] [M.musculus]
24237 18796 23725 23828 1754	AA817726 AA817761 AA817816 AA817823 AA817837	e la ii kk	1,4- galactosyltransferase, polypeptide 2	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta 1,4-GalT1 [Mus musculus] [M.musculus] potassium channel, subfamily K, member 2
24237 18796 23725 23828 1754 1802	AA817726 AA817761 AA817816 AA817823	e a ii	1,4- galactosyltransferase, polypeptide 2 potassium channel, subfamily K,	ESTs ESTs, Weakly similar to glycoprotein galactosyltransferase beta 1, 4; beta-1,4-GalT; galactosyltransferase 2 beta 1, 4; B-1,4-GalT1; beta 1,4-GalT1 [Mus musculus] [M.musculus]
	8137 19101 12797 22386 17658 10320 15213 21416 11901 12086 16852 23115 21427 22318 10549 12399 16388	17649 AA800735 8137 AA800749 19101 AA800787 12797 AA800790 22386 AA800844 17658 AA800853 10320 AA800855 15213 AA800908 21416 AA800962 11901 AA801058 12086 AA801116 16852 AA801130 23115 AA801165 21427 AA801181 22318 AA801187 10549 AA801255 12399 AA801307 16388 AA801310	8137 AA800749 g 19101 AA800787 aa,bb,ll 12797 AA800790 p,q 22386 AA800844 g 17658 AA800853 d,j,k,s,l 10320 AA800855 b,l,m 15213 AA800908 hh 21416 AA800962 hh 11901 AA801058 d 12086 AA801116 a 16852 AA801130 h,l 23115 AA801165 c 21427 AA801181 cc,dd 22318 AA801187 h,l 10549 AA801255 r,kk	8137 AA800749

TABLE 1	173.4		- 1		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	j t		The state of the s
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Highly similar to I48253 beta-N-
					acetylhexosaminidase (EC 3.2.1.52) alpha chain
138	14101	AA817867	ii		precursor - mouse [M.musculus]
				guanine nucleotide binding	
139		AA817892	r	protein beta 2 subunit	guanine nucleotide binding protein beta 2 subunit
140		AA817947	d,jj,kk		ESTs
141	5982	AA817999	r		ESTs
142	5996	AA818065	ii		ESTs
					ESTs, Highly similar to SYG_HUMAN Glycyl-tRNA
			į		synthetase (Glycine-IRNA ligase) (GlyRS)
143	16756	AA818089	118	HHs:glycyl-tRNA synthetase	[H.sapiens]
144		AA818153	ii	3,7,7	ESTs
145		AA818158	1		ESTs
					ESTs, Moderately similar to A47318 RNA-binding
146	6522	AA818261	r		protein Raly - mouse [M.musculus]
147		AA818288	ii		ESTs
148		AA818342	hh		ESTs
					ESTs, Highly similar to RIKEN cDNA 2310008M10
149	8058	AA818475	n,o,w,x		[Mus musculus] [M.musculus]
150		AA818521	11,0,44,7		ESTs
151			h,I		ESTs
152		AA818655	+		EST
132	0000	AA010033	l .	Diphtheria toxin receptor	[5]
				(heparin binding epidermal	
1				growth factor - like growth	Dinbibasia tavia sasastas (basasia biadia.
153	COEA	AA818658		15	Diphtheria toxin receptor (heparin binding
154		AA818717	p,q,ee,ff	factor)	epidermal growth factor - like growth factor)
155			W,X		ESTs
			r,bb,ll		ESTs
156 157			p,q		ESTs
13/	0029	AA010/04	ii		ESTs PM (
450	4404	A A 0 4 0 7 0 0			Rattus norvegicus mRNA for cathepsin Y, partial
158 159			w,x		cds
		AA818818	C		EST
160			ii * 1 1		ESTs
161			jj,kk		ESTs
162		AA818897	b		ESTs
163			d		ESTs
164		AA818911	τ		ESTs
165			n,o		ESTs
166		AA819086	cc,dd		ESTs
167			jj,kk		ESTs
168			aa,bb		ESTs
169			j,k		ESTs
170	9310	AA819367	cc,dd		ESTs
					ESTs, Weakly similar to JC5707 HYA22 protein -
171			hh		human [H.sapiens]
172			bb		ESTs
173			aa,bb		
174	6176	AA819657	v		EST .
		i		protein phosphatase 2 (formerly	
1				2A), regulatory subunit B (PR	protein phosphatase 2 (formerly 2A), regulatory
175	16971	AA819691	n,o	52), alpha isoform	subunit B (PR 52), alpha isoform
176	11021		p,q		ESTs
			· :_•		ESTs, Weakly similar to 28kD interferon alpha
177	19451	AA819788	С		responsive protein [Mus musculus] [M.musculus]
					ESTs, Weakly similar to B36579 inositol 1,4,5-
178	18427	AA819891	99		triphosphate receptor 2 - rat [R.norvegicus]
			<i>33</i>	L	Impriospirate receptor 4 - rat [17:11014e9lous]

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
050.5	0,00.5	GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code		Unigene Sequence Cluster Title
				stearoyl-Coenzymė A	
179		AA819905	hh	desaturase 1	stearoyl-Coenzyme A desaturase 1
180	9815	AA848218	p,q		ESTs
l			l .		ESTs, Weakly similar to DDRT helix-destabilizing
181		AA848306	b	<u> </u>	protein - rat [R.norvegicus]
182		AA848407	h,l		ESTs
183	11160	AA848470	ļii		ESTs
) :			}		ESTs, Weakly similar to T19253 hypothetical
			ļ		protein C14A4.11 - Caenorhabditis elegans
184	2324	AA848545	r	<u> </u>	[C.elegans]
			1		ESTs, Weakly similar to T19253 hypothetical
405	05440		l		protein C14A4.11 - Caenorhabditis elegans
185		AA848546	cc,dd		[C.elegans]
186	14654	AA848795	jj,kk		ESTs
			1		ESTs, Highly similar to BTF3_MOUSE Transcription
407	7740	4 4 0 4 0 0 0 4			factor BTF3 (RNA polymerase B transcription factor
187		AA848804	kk		3) [M.musculus]
188	14604	AA848828	С		ESTs
189	42402	A A D 4 D D D D	<u>.</u>		ESTs, Weakly similar to S12207 hypothetical
109	12102	AA848902	ii	Protogogogo (procomo	protein (B2 element) - mouse [M.musculus]
1				proteasome (prosome,	
190	10672	AA849028	.	macropain) subunit, alpha type	proteasome (prosome, macropain) subunit, alpha
191		AA849317	jj,kk	3	type 3 ESTs
131	0019	AA043311	JJ,KK		
192	2075	AA849394			ESTs, Weakly similar to DDRT helix-destabilizing
192	2010	AA049394	u,v		protein - rat [R.norvegicus] ESTs, Weakly similar to YLC4_CAEEL Hypothetical
			1	1	81.0 kDa protein C35D10.4 in chromosome III
193	18909	AA849426	h,i		[C.elegans]
194		AA849518	t		ESTs ESTs
194		AA849518	t .		ESTs
195		AA849731	cc,dd		ESTs
			50,00		2013
					ESTs, Highly similar to T08750 hypothetical protein
196	24128	AA849766	bb	1	DKFZp586E1519.1 - human (fragment) [H.sapiens]
197		AA849796	d		ESTs
198		AA849917	b,v		ESTs
199		AA849957	11		ESTs
					ESTs, Moderately similar to 0806162L protein
200	22026	AA850060	n,o	1	URF5 [Mus musculus] [M.musculus]
					ESTs, Moderately similar to 0806162L protein
200	22028	AA850060	cc,dd		URF5 [Mus musculus] [M.musculus]
201		AA850247	d		ESTs
					ESTs, Highly similar to I49257 NF2d9 - mouse
202		AA850524	k		[M.musculus]
203		AA850563	aa,bb		ESTs
204		AA850735	е		ESTs
205		AA850743	jj,kk		ESTs
206		AA850824	ii		ESTs
207			h,l		ESTs
208	21766	AA850916	kk		ESTs
				Rattus norvegicus	
				mitochondrial genome.	
1			h,l	9/22Length = 16,3	dimethylarginine dimethylaminohydrolase 1
209	21782	AA851034	u,v		ESTs
					Rattus norvegicus mRNA for cathepsin Y, partial
210	4490	AA851184	n,o		cds
					

TABLE 1	<u>,</u> ,:	B [, , , , , , , , , , , , , , , , , , , 	Atty. Ref. 44921,5090-01-WO/2105485
	r' .	GenBank Acc.		A Secretary of the secr	
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Weakly similar to T33304 hypothetical
l					protein R01B10.5 - Caenorhabditis elegans
211	4163	AA851210	99		[C.elegans]
					ESTs, Moderately similar to exostoses (multiple)-
l	İ				like 2; Exostoses, multiple, like 2 [Homo sapiens]
212	21456	AA851239	cc,dd		[H.sapiens]
					ESTs, Weakly similar to retinoic acid receptor
1					responder (tazarotene induced) 2 [Homo sapiens]
213	21465	AA851273	h,i		[H.sapiens]
214	19214	AA851364	u,v		ESTs
			-		ESTs, Highly similar to RIKEN cDNA 2900010105
215	16934	AA851403	ь		[Mus musculus] [M.musculus]
216		AA851493	aa,bb	claudin 7	claudin 7
	10027	7 11.00 1 100	144,55	Lutheran blood group (Auberger	Clauditi 7
217	21713	AA851637	e,r	b antigen included)	Lutheran blood group (Auberger b antigen included)
218		AA851660	ee,ff	b anager modecaj	ESTs
219		AA851788	e		ESTs
220		AA851820	le e	<u> </u>	ESTs
	12.107	. 3 .00 1020	ľ		ESTs, Moderately similar to T12501 hypothetical
			ł		protein DKFZp434O171.1 - human (fragment)
221	10150	AA851953			[H.sapiens]
- 221	13133	AA001300	lu,v		ESTs, Weakly similar to T51146 ring-box protein 1
222	16360	AA858518	f a		
223	1.	AA858548	f,g a,kk		[imported] - human [H.sapiens]
223		AA858572			ESTs
	23009	AA000012	u,v		ESTs
			1		ESTs, Highly similar to mini chromosome
225	1001	AA858636			maintenance deficient 7 (S. cerevisiae) [Mus
226		AA858674	n,o		musculus] [M.musculus]
220	10330	AA030074	p,q,ee,ff		ESTs
			İ		ESTs, Moderately similar to mitochondrial
227	12020	1 1 0 E 0 C 0 E			ribosomal protein S33; milochondrial 28S ribosomal
221	12029	AA858695	99		protein S33 [Homo sapiens] [H.sapiens]
			}		ESTs, Weakly similar to NTC1_RAT Neurogenic
000	42000	A A 0.50052	L	•	locus notch homolog protein 1 precursor (Notch 1)
228	13002	AA858853	b,l,m	Tissue inhibitor of	[R.norvegicus]
000	47000	* * 050000			
229	17230	AA858903	s,t,gg	metalloproteinase 3	Tissue inhibitor of metalloproteinase 3
					ESTs, Moderately similar to SYN_HUMAN
000	5007	*******	l		Asparaginyl-tRNA synthetase, cytoplasmic
230		AA858953 AA858955	kk		(Asparagine-tRNA ligase) (AsnRS) [H.sapiens]
231			j,k		EST
232		AA859114	kk		ESTs
233		AA859284	f,g	procollagen, type I, alpha 2	procollagen, type I, alpha 2
234		AA859319	b,l,m		ESTs
235	75157	AA859343	j,k		ESTs .
					ESTs, Moderately similar to RP38_HUMAN
	,				Ribonuclease P protein subunit p38 (RNaseP
236		AA859346	u,v		protein p38) [H.sapiens]
237		AA859348	P.q		ESTs
238		AA859447	q		ESTs
239		AA859479	f		ESTs
240	13595	AA859508	b,s		ESTs
			1		ESTs, Highly similar to JC6127 RNA-binding protein
241		AA859519	d,h,l		type 1 - human [H.sapiens]
242	15150	AA859562	d,hh		ESTs
					ESTs, Weakly similar to FYVE zinc finger
243		AA859616	99		[Caenorhabditis elegans] [C.elegans]
244		AA859643	С		ESTs
245	11635	AA859645	j,k,ii	attractin	attractin

TABLE 1	ş!,				Atty. Ref.,44921-5090-01-WO/2105485
050.5		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1		·	l		ESTs, Weakly similar to DJA1_MOUSE DnaJ
	ľ			Ī	homolog subfamily A member 1 (Heat shock 40 kDa
					protein 4) (DnaJ protein homolog 2) (HSJ-2)
246		AA859648	p,q		[R.norvegicus]
247		AA859680	y,z		ESTs
247	22407	AA859680	s,t		ESTs
					ESTs, Highly similar to AU RNA-binding enoyl-
					coenzyme A hydratase; AU RNA-binding
			į		protein/enoyl-coenzyme A hydratase [Mus
248		AA859688	w,hh		musculus) [M.musculus]
249	21440	AA859719	l,m		ESTs
					ESTs, Weakly similar to ERF_MOUSE ETS-domain
250		AA859750	y,z,hh		transcription factor ERF [M.musculus]
251	2262	AA859757	hh	collagen, type V, alpha 1	collagen, type V, alpha 1
					ESTs, Moderately similar to LYOX_RAT Protein-
			•		lysine 6-oxidase precursor (Lysyl oxidase)
252	22385	AA859805	g,s,t		[R.norvegicus]
					ESTs, Moderately similar to URK1_MOUSE
					URIDINE KINASE (URIDINE
253	14213	AA859827	a,y,z,ee,ff		MONOPHOSPHOKINASE) [M.musculus]
254	22630	AA859848	99		ESTs
255	22739	AA859877	h,I,II		ESTs
256	22773	AA859885	c,r,bb		ESTs
257	15165	AA859919	ii		ESTs
257	15166	AA859919	hh		ESTs
258		AA859922	n,o		ESTs
					ESTs, Moderately similar to TNP1_HUMAN Tumor
					necrosis factor, alpha-induced protein 1, endothelial
259	18468	AA859966	l,m		(B12 protein) [H.sapiens]
					ESTs, Weakly similar to MYOP_RAT Myo-inositol-
					1(or 4)-monophosphatase (IMPase) (IMP) (Inositol
				HHs:inositol(myo)-1(or 4)-	monophosphatase) (Lithium-sensitive myo-inositol
260	23336	AA859981	ee,ff,jj,kk	monophosphatase 2	monophosphatase A1) [R.norvegicus]
261	14206	AA859994	a		ESTs
					ESTs, Weakly similar to T50607 hypothetical
					protein DKFZp434l1016.1 - human (fragment)
262	23347	AA860015	aa,bb		[H.sapiens]
					ESTs, Highly similar to EF1G_MOUSE Elongation
					factor 1-gamma (EF-1-gamma) (eEF-1B gamma)
263	4222	AA860024	h,l,w,x		[M.musculus]
264		AA860029	aa		ESTs
			-		Rattus norvegicus mRNA for class I beta-tubulin,
265	13974	AA860030	n,o,w,x,ll		complete cds
266		AA866250	b,i,m		ESTs ESTs
	. 55 .0		-,4,		ESTs, Weakly similar to A60543 protein kinase (EC
					2.7.1.37), cAMP-dependent, catalytic chain - rat
267	15884	AA866276	d,f,g,r		(fragment) [R.norvegicus]
	,,,,,,,,	. 5 .000210	a,j,k,w,x,y,z,jj,		[magniony [minorvogious]
268	17217	AA866299	kk		ESTs
268		AA866299	gg,jj,kk		ESTs
	11210	, , 1000200	33411444	4-hydroxyphenylpyruvic acid	1013
269	17749	AA866302	С	dioxygenase	4-hydroxyphenylpyruvic acid dioxygenase
270		AA866345	kk	dionygenase	
271		AA866364	r		ESTs ESTs
272		AA866383	d,ee,ff,kk		ESTs
273		AA866426	s,ii		
274		AA866439	b b		ESTS
275		AA866452	_	Actin alpha cordina	ESTs
	10001	A400040Z	bb,cc,dd	Actin, alpha, cardiac	Actin, alpha, cardiac

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
250		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Weakly similar to T42737 gp330 protein
276	309	AA866460	b	<u> </u>	precursor - rat [R.norvegicus]
					ESTs, Moderately similar to COXM_MOUSE
					Cytochrome c oxidase polypeptide VIIb,
277	9391	AA866477	r		mitochondrial precursor [M.musculus]
					ESTs, Moderately similar to 0806162L protein
278	16029	AA874803	j,k		URF5 [Mus musculus] [M.musculus]
					ESTs, Moderately similar to 0806162L protein
278		AA874803	j,k		URF5 [Mus musculus] [M.musculus]
279	16070	AA874873	cc,dd		ESTs
			1		ESTs, Highly similar to ADHX_RAT ALCOHOL
					DEHYDROGENASE CLASS III (ALCOHOL
		-			DEHYDROGENASE 2) (GLUTATHIONE-
				į	DEPENDENT FORMALDEHYDE
ì					DEHYDROGENASE) (FDH) (FALDH) (ALCOHOL
280		AA874874	p,q	HMm:alcohol dehydrogenase 5	DEHYDROGENASE-B2) [R.norvegicus]
281	18563	AA874875	ii		
1					ESTs, Weakly similar to segregation of mitotic
1			1		chromosomes b; SMC (segregation of mitotic
ł					chromosomes 1)-like 1 (yeast) [Rattus norvegicus]
282		AA874887	ii		[R.norvegicus]
283	16084	AA874889	Г		ESTs
1					ESTs, Weakly similar to dual-specificity
284		AA874926	hh		phosphatase [Mus musculus] [M.musculus]
285	16139	AA874927	cc,dd		ESTs
					ESTs, Highly similar to SNX4_HUMAN Sorting
286		AA874928	f		nexin 4 [H.sapiens]
287	16177	AA874952	11		ESTs
			İ		ESTs, Weakly similar to RIKEN cDNA
288		AA874990	u,v,w,x	•	6330407G11 [Mus musculus] [M.musculus]
289	16192	AA874995	jj,kk		ESTs
					ESTs, Highly similar to protein translocation
				1	complex beta; protein transport protein SEC61 beta
290	16215	AA874999	h,l,n,o		subunit [Homo sapiens] [H.sapiens]
					ESTs, Highly similar to ZAP3_MOUSE Nuclear
291		AA875019	l,m		protein ZAP3 [M.musculus]
292		AA875023	b,l,m		ESTs
293	16312	AA875032	j,k,p,q,bb,kk		ESTs
1			1		ESTs, Highly similar to TCPZ_MOUSE T-complex
1 .				1	protein 1, zeta subunit (TCP-1-zeta) (CCT-zeta)
294		AA875047	e	<u> </u>	(CCT-zeta-1) [M.musculus]
295		AA875060	s,t,jj,kk		ESTs
296	1190	AA875089	hh	Calpastatin	Calpastatin
					ESTs, Highly similar to RIKEN cDNA 1110002O23
297	16416	AA875098	n,o		[Mus musculus] [M.musculus]
					ESTs, Highly similar to RUXÉ_HUMAN Small
					nuclear ribonucleoprotein E (snRNP-E) (Sm protein
298	16419	AA875102	d		E) (Sm-E) (SmE) [M.musculus]
				CCAAT binding factor of CBF-	
299	4339	AA875121	jj,kk	C/NFY-C	CCAAT binding factor of CBF-C/NFY-C
300	15310	AA875123	u,v		EST
301		AA875124	ii		EST
302	11857	AA875132	d,ii		ESTs
303	14285	AA875194	ii		ESTs
					ESTs, Highly similar to IF39_HUMAN Eukaryotic
1					translation initiation factor 3 subunit 9 (eIF-3 eta)
304		AA875205	y,z		(elF3 p116) (elF3 p110) [H.sapiens]
305	18897	AA875207	t	Hemoglobin, beta	Hemoglobin, beta
			<u> </u>	1 - 3 3	1

TABLE 1			3		Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	C1 CC ID	GenBank Acc.			
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
306	15384	AA875217	cc,dd	CYP Hadis and High Column	ESTs
307	15887	AA875225		GTP-binding protein (G-alpha- i2)	CTD hinding aratain (C alpha i2)
307	13007	AA013223	e	GTP-binding protein (G-alpha-	GTP-binding protein (G-alpha-i2)
307	15888	AA875225	e,gg	i2)	GTP-binding protein (G-alpha-i2)
308		AA875261	d,jj,kk	1(2)	ESTs
			G _{III} ,		ESTs, Highly similar to NUKM_HUMAN NADH-
					ubiquinone oxidoreductase 20 kDa subunit,
					mitochondrial precursor (Complex I-20KD) (CI-
309		AA875268	jj,kk		20KD) (PSST subunit) [H.sapiens]
310		AA875316	h,l		ESTs
311		AA875327	n,o,s,t		ESTs
312	15510	AA875428	a,s,t,x,ee,ff,ll		ESTs
242	45540	A A 0.7C 4.04	[ESTs, Weakly similar to synbindin; syndecan
313	15513	AA875431	n,o		binding protein 2 [Mus musculus] [M.musculus] [ESTs, Highly similar to COP9 (constitutive
					photomorphogenic) homolog, subunit 7a
			1		(Arabidopsis thaliana); DNA segment, Chr 6,
					ERATO Doi 35, expressed; COP9 complex S7a;
			ĺ	İ	COP9 (constitutive photomorphogenic), subunit 7a
314	18864	AA875470	b		(Arabidopsis) [Mus musculus] [M.musculus]
315		AA875500	r		ESTs
		-			ESTs, Highly similar to MLES_RAT Myosin light
					chain alkali, smooth-muscle isoform (MLC3SM)
316	24470	AA875523	aa,bb		[R.norvegicus]
					ESTs, Highly similar to MLES_RAT Myosin light
242	0.44774		ĺ. <u>.</u>		chain alkali, smooth-muscle isoform (MLC3SM)
316	244/1	AA875523	ii		[R.norvegicus]
1					ESTs, Highly similar to MLES_RAT Myosin tight
316	2//72	AA875523	ii		chain alkali, smooth-muscle isoform (MLC3SM) [R.norvegicus]
- 310	21712	717070020	<u> </u>	Rattus norvegicus	[[1.1101 vegicus]
. 1				mitochondrial genome.	Rattus norvegicus CDK110 mRNA, procollagen,
2	6153	AA875531	g,j,k	9/22Length = 16,3	type I, alpha 2
					ÉSTs, Highly similar to SFR2_MOUSE Splicing
					factor, arginine/serine-rich 2 (Splicing factor SC35)
					(SC-35) (Splicing component, 35 kDa) (PR264
317		AA875537	y,z		protein) [M.musculus]
318		AA875559	hh		ESTs
319 319		AA875620 AA875620	ee,ff,jj,kk		ESTs
320		AA875629	y,z,ee,ff n,o,ll		ESTs ESTs
321		AA875633	r,gg		ESTs
- JE 1	1,0000	, , 10, 0000	צפיי		LOTS
-					ESTs, Weakly similar to FAS_RAT FATTY ACID
					SYNTHASE [INCLUDES: EC 2.3.1.38; EC 2.3.1.39;
					EC 2.3.1.41; EC 1.1.1.100; EC 4.2.1.61; EC
322	2846	AA875639	а		1.3.1.10; EC 3.1.2.14] [R.norvegicus]
. 1					ESTs, Highly similar to mitochondria associated
					granulocyte macrophage CSF signaling molecule
323	15688	AA875664	aa		[Mus musculus] [M.musculus]
204	40200	A A 904.022			EST, Moderately similar to S37488 gene T10
324 325		AA891032 AA891041	iknavatt	iun P proto onosses	protein - mouse [M.musculus]
323	5504	AAU31041	j,k,p,q,y,z,kk	jun B proto-oncogene	jun B proto-oncogene ESTs, Highly similar to PFD2_MOUSE Prefoldin
326	17057	AA891049	С		subunit 2 [M.musculus]
327		AA891054	c,p		ESTs
328		AA891108	p,q,y,ee,ff	 	ESTs
		AA891207	u,ee,ff	 	ESTs

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
CEO.15	01.00.15	GenBank Acc.			
SEQ ID	GLGC ID	NO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
Í					ESTs, Highly similar to interleukin 25; lymphocyte
	01011				antigen 6 complex, locus E ligand [Mus musculus]
330		AA891209	n,o,w,x		[M.musculus]
331	21917	AA891220	h,l		ESTs
	0,000		l		ESTs, Weakly similar to A53714 protein kinase (EC
332		AA891302	b,l,m		2.7.1.37) BL44 - human [H.sapiens]
333		AA891423	ii		ESTs
334		AA891439	C		ESTs
335	13789	AA891476	jj,kk		ESTs
1	04054	******	l		ESTs, Highly similar to hippocampus abundant
336		AA891535	cc,dd		gene transcript 1 [Mus musculus] [M.musculus]
337		AA891542	d		ESTs
338		AA891546	s		ESTs
339		AA891551	р		ESTs
340		AA891580	е		ESTs
341		AA891595	e	•	ESTs
342		AA891596	e,aa,bb		ESTs
343		AA891631	ee,ff,jj,kk		ESTs
344		AA891666	cc,dd	melanoma antigen, family D, 1	melanoma antigen, family D, 1
345		AA891677	h,I,II		ESTs
346		AA891721	w,x		ESTs
347		AA891727	aa		ESTs
348		AA891733	a,l,m,ee,ff,jj,kk		ESTs
349		AA891734	e,hh		ESTs
350		AA891735 '	S		ESTs
351	17693	AA891737	U,V		ESTs
					ESTs, Highly similar to endothelial differentiation-
i i					related factor 1; hypothetical protein 1-9 [Mus
352	6535	AA891746	l,m		musculus] [M.musculus]
					ESTs, Weakly similar to SC65 synaptonemal
353		AA891769	е		complex protein [Rattus norvegicus] [R.norvegicus]
354	9905	AA891774	l,m		ESTs
					ESTs, Highly similar to MRGX_HUMAN
					Transcription factor-like protein MRGX (MORF-
355	21672	AA891789	f,g		related gene X protein) [H.sapiens] ESTs, Weakly similar to F22G12.5.p
		:			
	-				[Caenorhabditis elegans] [C.elegans], ESTs,
-					Weakly similar to IPYR_HUMAN Inorganic
					pyrophosphatase (Pyrophosphate phospho-
356	11966	AA891800	hh,jj,kk		hydrolase) (PPase) [H.sapiens]
					ESTs, Weakly similar to IPYR_HUMAN Inorganic
					pyrophosphatase (Pyrophosphate phospho-
356		AA891800	n,o		hydrolase) (PPase) [H.sapiens]
357		AA891802	cc,dd		ESTs
358		AA891803	hh		ESTs .
359	7050	AA891824	n,o		Rattus norvegicus clone ZG52 mRNA sequence
					ESTs, Highly similar to NNTM_MOUSE NAD(P)
.					transhydrogenase, mitochondrial precursor
					(Pyridine nucleotide transhydrogenase)
	ļ				(Nicotinamide nucleotide transhydrogenase)
360	16023	AA891872	w,x		[M.musculus]
					ESTs, Highly similar to S66254 dolichyl-
					diphosphooligosaccharide-protein glycotransferase
361		AA891937	f		(EC 2.4.1.119) 50K chain - human [H.sapiens]
362	1159	AA891949	kk		ESTs
363		AA891950	jj,kk		ESTs
364	4472	AA891962]		ESTs

TABLE 1	<u> </u>	· .	1. 12	ųž.	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID:	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			•		ESTs, Highly similar to fructosamine 3 kinase [Mus
365		AA891965	jj,kk		musculus] [M.musculus]
366		AA891969	b,l,m		ESTs
367	17374	AA891978	w,x,jj,kk		ESTs
					ESTs, Weakly similar to T22242 hypothetical
]		protein F45G2.10 - Caenorhabditis elegans
368		AA892010	s,t		[C.elegans]
369		AA892014	hh	HLA-B associated transcript 1A	HLA-B associated transcript 1A
370		AA892042	d,t,y,z		ESTs
371		AA892094	ii		ESTs
372		AA892120	s,t		ESTs
373	16899	AA892127	u,v		ESTs
					ESTs, Highly similar to open reading frame 12 [Mus
374		AA892137	jj,kk		musculus] [M.musculus]
375		AA892149	C,W		ESTs
376	20917	AA892238	f,ll		ESTs
			1	•	ESTs, Weakly similar to 2008109A set gene [Rattus
377	17350	AA892240	l,m,ii		norvegicus] [R.norvegicus]
					ESTs, Highly similar to SYK_HUMAN Lysyl-tRNA
					synthetase (Lysine-tRNA ligase) (LysRS)
378		AA892250	d		[H.sapiens]
379		AA892273	b		ESTs
380		AA892280	a,s,t,w,x		ESTs
381	11982	AA892284	ii		ESTs
					ESTs, Highly similar to JC7219 nuclear protein SR-
382	18209	AA892318	s,t		25 - mouse [M.musculus]
					ESTs, Highly similar to RL3_RAT 60S RIBOSOMAL
383		AA892367	w,x,cc,dd		PROTEIN L3 (L4) [R.norvegicus]
384	15492	AA892376	f		ESTs
					ESTs, Weakly similar to F13B9.8.p [Caenorhabditis
385	3473	AA892378	е		elegans] [C.elegans]
					ESTs, Weakly similar to F13B9.8.p [Caenorhabditis
385		AA892378	e,gg		elegans] [C.elegans]
386	2832	AA892388	b,u,v	CD59 antigen	CD59 antigen
					ESTs, Weakly similar to TC17_RAT Zinc finger
					protein 354A (Transcription factor 17) (Renal
007					transcription factor Kid-1) (Kidney, ischemia, and
387		AA892391	ee,ff		developmentally regulated protein-1) [R.norvegicus]
388		AA892414	99		ESTs
389	23194	AA892417	99	ephrin A1	ephrin A1
200	0054	A A 000 470	<u> </u>		ESTs, Highly similar to S03644 histone H2A.Z - rat
390	9254	AA892470	e		[R.norvegicus]
204	44000	4 4 000 405		dihydrolipoamide	
391	11992	AA892485	Ī	acetyltransferase	dihydrolipoamide acetyltransferase
			1		ESTs, Weakly similar to A36690 sucrose alpha-
200	4500	A A 0.00 400	[_		glucosidase (EC 3.2.1.48) - rat (fragment)
392	1522	AA892486	С		[R.norvegicus]
3 93	24072	V V BO 3 4 0 0			ESTs, Weakly similar to CD63_RAT CD63 antigen
393		AA892498 AA892504	jj,kk		(AD1 antigen) [R.norvegicus]
394	14000	AA0920U4	s,t,u		ESTs Moderately similar to C63540 protein DS 1
201	44004	AA892507	 hh		ESTs, Moderately similar to S63540 protein DS 1,
395 396		AA892520	hh		24K - human [H.sapiens]
396		AA892520 AA892520	w,x		ESTs
397		AA892522	w,x		ESTs
39/	6099	TA032322	<u> </u>		ESTs
398	17/60	AA892545	· !		ESTs, Moderately similar to organic cationic
220	17400	7V000Z040	t		transporter-like 2 [Mus musculus] [M.musculus]

TABLE 1					Atly. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Highly similar to hypothetical protein
399		AA892547	cc,dd		CL25022 [Homo sapiens] [H.sapiens]
400		AA892554	ſ		ESTs
400		AA892554	j,k		ESTs
401	13574	AA892557	jj,kk		ESTs
1					ESTs, Highly similar to RIKEN cDNA 1110001J03
402	18274	AA892572	gg,ħh		[Mus musculus] [M.musculus]
					ESTs, Highly similar to RIKEN cDNA 1110001J03
402	18275	AA892572	hh		[Mus musculus] [M.musculus]
403	4512	AA892578	j,k,p,q		ESTs
					ESTs, Highly similar to RL8_HUMAN 60S ribosomal
404	15876	AA892582	g,w,x		protein L8 [R.norvegicus]
					ESTs, Weakly similar to putative nucleotide binding
ł i					protein, estradiol-induced [Homo sapiens]
405	19085	AA892598	j,k,y,z,ee,ff,kk		[H.sapiens]
					ESTs, Weakly similar to putative nucleotide binding
1					protein, estradiol-induced [Homo sapiens]
405	19086	AA892598	j,k,p,q,y,z		[H.sapiens]
406	2119	AA892607	gg		ESTs
407	4517	AA892642	f		ESTs
408	20065	AA892647	c,d,r	germinal histone H4 gene	germinal histone H4 gene
409		AA892773	w,x	<u> </u>	ESTs
410		AA892775	a,n,x	Lysozyme	Lysozyme
			· · · · · · · · · · · · · · · · · · ·		ESTs, Highly similar to ERC1_MOUSE DNA
1					EXCISION REPAIR PROTEIN ERCC-1
411	21972	AA892791	ii		[M.musculus]
			-		ESTs, Highly similar to S15892 pyruvate
1 1				HMm:pyruvate dehydrogenase	dehydrogenase (lipoamide) (EC 1.2.4.1) beta chain
412	11997	AA892828	f,h,l	(lipoamide) beta	rat [R.norvegicus]
			.,,,,	(wpodinios) bota	ESTs, Weakly similar to CAZ3_RAT F-actin capping
1 1	i				protein alpha-3 subunit (CAPZ alpha-3)
413	7148	AA892842	f,g		[R.norvegicus]
			13		ESTs, Moderately similar to hypothetical protein
414	17923	AA892843	b		FLJ20917 [Homo sapiens] [H.sapiens]
415			p,q,s,t		ESTs
415			a,j,k		ESTs
					ESTs, Weakly similar to PLO1_RAT Procollagen-
1 1		· .			lysine,2-oxoglutarate 5-dioxygenase 1 precursor
416	22871	AA892859	gg		(Lysyl hydroxylase 1) (LH1) [R.norvegicus]
417			ээ а		ESTs
418			t		ESTs
	50				ESTs, Weakly similar to JC7260 strictosidine
	l				synthase (EC 4.3.3.2) homolog 2 - fruit fly
419	12848	AA892916	s,t		(Drosophila melanogaster) [D.melanogaster]
420			d d	nucleolar phosphoprotein p130	nucleolar phosphoprotein p130
123				полона раозраброден р 130	ESTs, Weakly similar to EF2_RAT Elongation factor
421	16482	AA892940	dα		2 (EF-2) [R.norvegicus]
422			<u>99</u> d		ESTs
744	10000	, 5 1002072	<u>-</u>		ESTs, Weakly similar to GSHH_RAT Phospholipid
					hydroperoxide glutathione peroxidase,
					mitochondrial precursor (PHGPx) (GPX-4)
423	10124	AA893022	ii		
423			h.i		[R.norvegicus]
425					ESTs
426			u,v,ii m		ESTs
+20	22423	AAU33104	m		ESTs Moderately similar to hypothetical protein
427	17721	AA893194	c f		ESTs, Moderately similar to hypothetical protein
428	12222		c,f hh		MGC10974 [Horno sapiens] [H.sapiens]
429			f f		ESTs
423	7243	777030211	·		ESTs

TABLE 1		GenBank Acc.	, «« 		Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Clüster Title
			moder opag	, adjourn oche manie	
430	3879	AA893237			ESTs, Moderately similar to hypothetical protein
700		AA033231	е	fatty acid Coenzyme A ligase,	MBC3205 [Homo sapiens] [H.sapiens]
431	20985	AA893242	1 10	long chain 2	foths said Cooperate A linear levels in O
	20000	701000242	111	fatty acid Coenzyme A ligase,	fatty acid Coenzyme A ligase, long chain 2
431	20986	AA893242	lı	long chain 2	fatty acid Coenzyme A ligase, long chain 2
432		AA893244	lii	long chair z	ESTs
		7.0.0002.1.1	 		ESTs, Weakly similar to S46992 protein p130 - rat
433	21652	AA893267	u,v		[R.norvegicus]
					ESTs, Moderately similar to ADFP_MOUSE
			İ	1	ADIPOPHILIN (ADIPOSE DIFFERENTIATION-
434	16168	AA893280	a,y,z		RELATED PROTEIN) (ADRP) [M.musculus]
					ESTs, Moderately similar to C54354 calnexin
435	11935	AA893328	gg	1	precursor - rat [R.norvegicus]
			33		Rattus norvegicus hypothetical RNA binding protein
436	22355	AA893338	b,u,v		RDA288 mRNA, complete cds
437		AA893357	gg		ESTs
			33		ESTs, Highly similar to RL26_RAT 60S
438	18542	AA893493	g		RIBOSOMAL PROTEIN L26 [R.norvegicus]
					ESTs, Highly similar to translocation protein 1;
İ				į	Dtrp1 protein; membrane protein SEC62,
	Ì				S.cerevisiae, homolog of [Homo sapiens]
439	2689	AA893515	n	ĺ	[H.sapiens]
440		AA893581	f		ESTs
441	22149	AA893607	s,t		ESTs
441			b,I,m		ESTs
442		AA893612	e		ESTs
					ESTs, Moderately similar to coatomer protein
	İ				complex, subunit zeta 1; nonciathrin coat protein
443	19505	AA893634	r,ii	`	zeta1-COP [Mus musculus] [M.musculus]
444	3623		jj,kk	,	ESTs
445	4544		h,l	TEMO	TEMO
					ESTs, Weakly similar to T46904 hypothetical
446	19411	AA893667	cc,dd		protein DKFZp761D081.1 - human [H.sapiens]
447	9084	AA893717	d		ESTs
448	22731	AA893743	f,g		ESTs
449	4556		aa,bb		ESTs
					ESTs, Moderately similar to SYTC_HUMAN
- 1	1				Threonyl-tRNA synthetase, cytoplasmic (Threonine-
450		AA893860 ·	y,z	HHs:threonyl-tRNA synthetase	tRNA ligase) (ThrRS) [H.sapiens]
451			ii		ESTs
452			h,aa,bb		ESTs
453			ii		ESTs
454	4565	AA893994	b,i,m		EST
				7441	ESTs, Highly similar to CAPG_MOUSE
1					Macrophage capping protein (Myc basic motif
l		ł			homolog-1) (Actin-capping protein GCAP39)
455	23731	AA894004	l,n,o,kk,ll		[M.musculus]
456	22583	AA894009	b,I,m		
456	22584	AA894009	aa,bb,ii		ESTs
457		AA894027	Г		
458	15913	AA894092	n,o		ESTs
	T				ESTs, Weakly similar to T20253 hypothetical
1	1	ļ			protein F53E4.1 - Caenorhabditis elegans
459			jj,kk		[C.elegans]
460	9388	AA894173	С		ESTs
					ESTs, Highly similar to A31568 electron transfer
461	1	ļ			flavoprotein alpha chain precursor - rat
	40404	AA894174	h,I		[R.norvegicus]

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID.	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
462	21989	AA894188	cc,dd		ESTs
463		AA894193	Г		ESTs
			<u> </u>		ESTs, Highly similar to MLES_RAT Myosin light
]]		Ę		1	chain alkali, smooth-muscle isoform (MLC3SM)
464	24473	AA894200	ь	4	[R.norvegicus]
<u>'</u>	21110	70100-1200	 		ESTs, Weakly similar to dual-specificity
465	22783	AA894207	r		phosphatase [Mus musculus] [M.musculus]
466		AA894233	s		ESTs
467		AA894297			ESTS
407	17330	AA094297	j,k,s,t		
460	2010	A A 00 42 4E	£:1		ESTs, Weakly similar to 2021425A MAT1 gene
468		AA894345	f,j,k,r,gg		[Mus musculus] [M.musculus]
469	4107	AA899109	d		ESTs
				Myristoylated alanine-rich	Myristoylated alanine-rich protein kinase C
470	24329	AA899253	aa,bb	protein kinase C substrate	substrate
				1	ESTs, Moderately similar to KIAA1049 protein
471	22490	AA899289	d	1	[Homo sapiens] [H.sapiens]
					ESTs, Highly similar to SYW_MOUSE Tryptophanyl-
			1		tRNA synthetase (Tryptophan-tRNA ligase)
472	4636	AA899491	e		(TrpRS) [M.musculus]
473		AA899535	u,v		ESTs
474		AA899797	bb,ii	 	EST
475		AA899828	l,m	 	ESTs
476		AA899854	c	topoisomerase (DNA) II alpha	topoisomerase (DNA) II alpha
	20110	771033034	<u> </u>	Topoisomerase (DIVA) il alpila	topoisomerase (DNA) ii aipiia
ł			1		TOTAL HIGH IN STREET OF COORDA Land I STREET OF STREET
477	47040	A A 00000A	1_		ESTs, Highly similar to S30034 translocating chain-
477		AA899894	ļr		associating membrane protein - human [H.sapiens]
478		AA899911	10		ESTs
479	9114	AA899951	cc,dd		ESTs
					ESTs, Highly similar to S63993 acrosomal protein
480		AA899959	l,m		AZ1 - mouse [M.musculus]
481	18890	AA899964	e,r		ESTs
					ESTs, Highly similar to T08712 hypothetical protein
482	11268	AA899969	l,m		DKFZp566C0424.1 - human (fragment) [H.sapiens]
				polypyrimidine tract binding	
483	3903	AA899986	w,x	protein	polypyrimidine tract binding protein
					ESTs, Weakly similar to T12B3.4.p [Caenorhabditis
484	22480	AA900230	u,v		elegans] [C.elegans]
			· · · · · · · · · · · · · · · · · · ·	HMm:carbon catabolite	ESTs, Highly similar to A2MG_RAT ALPHA-2-
}				repression 4 homolog (S.	MACROGLOBULIN PRECURSOR (ALPHA-2-M)
485	1725	AA900290	tyzeeff	cerevisiae)	· · · · · · · · · · · · · · · · · · ·
486		AA900290 AA900326	t,y,z,ee,ff	oeleviside)	[R.norvegicus] ESTs
400	4130	AA300320	d,jj,kk		
					ESTs, Weakly similar to T47146 hypothetical
		* * * * * * * * * * * * * * * * * * * *		1	protein DKFZp761C169.1 - human (fragment)
487		AA900343	cc,dd		[H.sapiens]
488	4750	AA900469	u,v		ESTs
					ESTs, Moderately similar to T50619 hypothetical
1				1	protein DKFZp762M136.1 - human (fragment)
489		AA900474	w,x	1	[H.sapiens]
490		AA900762	ii		ESTs
491	4779	AA900825	u,v		ESTs
					ESTs, Weakly similar to COPP_RAT Coatomer
					beta' subunit (Beta'-coat protein) (Beta'-COP)
492	14712	AA900860	ee.ff		(p102) [R.norvegicus]
					ESTs, Weakly similar to HE47_RAT Probable ATP-
493	3822	AA900863	kk	1	dependent RNA helicase p47 [R.norvegicus]
700	3022		****	L	Incheuneur Luxy neurage has living sedional

TABLE 1	-	· · · · · · · · · · · · · · · · · · ·	* * ; *	<i>s</i> *; .	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			/	Cbp/p300-interacting	·
			1	transactivator, with Glu/Asp-rich	Cbp/p300-interacting transactivator, with Glu/Asp-
494	4790	AA900875	ee,ff	carboxy-terminal domain, 4	rich carboxy-terminal domain, 4
				branched chain	
495	23038	AA900881	a,j,k,y,z	aminotransferase 1, cytosolic	branched chain aminotransferase 1, cytosolic
496		AA900967	j,k		ESTs
					ESTs, Highly similar to p34SEI-1; PHD zinc finger-
				1	and bromodomain-interacting protein 1 [Mus
497	22666	AA900974	a,t,y,z,ee,ff	1	musculus] [M.musculus]
498		AA900993	s,t	· · · · · · · · · · · · · · · · · · ·	indocardaj pikinidocardoj
499		AA901058			ESTs
500		AA901069	99		1018
501		AA901009 AA901107	j,k kk		FOT.
501	22090	AA901107	KK		ESTs
	****			1	ESTs, Weakly similar to S53358 ubiquitin-
502		AA901238	w,x		conjugating enzyme E2.17kB - rat [R.norvegicus]
503	4861	AA901290	y,z,kk		ESTs
					ESTs, Highly similar to sialyltransferase 7 ((alpha-
			1		N-acetylneuraminyl 2,3-beta-galactosyl-1,3)-N-
					acetyl galactosaminde alpha-2,6-sialyltransferase
504		AA901341	j,k	1	B; ST6GalNAc II [Mus musculus] [M.musculus]
505		AA901350	d		ESTs
506		AA923850	kk		ESTs
507		AA923996	h,l		EST
508		AA924013	ır		ESTs
509		AA924036	c,kk		ESTs
- 000		7 1 102 1000	- I		ESTs, Weakly similar to growth supressor 1;
510	4907	AA924091	r		leprecan [Rattus norvegicus] [R.norvegicus]
511		AA924097	jj,kk		ESTs
311	4303	AA324031	JJ,AN	Tissue inhibitor of	C018
512	47924	AA924107	lii	1	Tingue inhibitor of matallaguatainage 2
312	1/231	AA324101		metalloproteinase 3	Tissue inhibitor of metalloproteinase 3
543	1017	A A DO 44 40	ļ		ESTs, Weakly similar to Y193_HUMAN
513		AA924140	l,m		Hypothetical protein KIAA0193 [H.sapiens]
514		AA924251	C		ESTs
5 1 5		AA924335	h,i,ii		ESTs
516	12346	AA924346	d,aa,bb		ESTs
					ESTs, Weakly similar to Prostatic Acid
					Phosphatase (E.C.3.1.3.2) Complexed With Tartario
517		AA924352	b,v		Acid [R.norvegicus]
518	4945	AA924415	n,o		ESTs
519	4954	AA924444	u,v		ESTs
					ESTs, Highly similar to RL9_RAT 60S RIBOSOMAL
520	18251	AA924548	jj,kk	1	PROTEIN L9 [R.norvegicus]
521		AA924571	l,m	1	ESTs
522		AA924578	g,il	1	ESTs
523		AA924598	e		ESTs
524		AA924689	ii		ESTs
525		AA924794	a,kk	 	ESTs
526		AA924802	e	 	ESTS
527		AA924902 AA924902			
			W,X	 	ESTs
528		AA924926	h,I,Jj,kk	<u></u>	ESTs
529		AA924943	l,m	 	ESTs
530		AA924985	e	calsequestrin 2	calsequestrin 2
531	5070	AA925031	r		ESTs
					ESTs, Highly similar to GYRTI cysteine-rich
532	23173	AA925057	h,l,w,x		intestinal protein - rat [R.norvegicus]
			1		ESTs, Moderately similar to 2118320A
			i	i	
533					neurodegeneration-associated protein 1 [Rattus

TABLE 1		1 ''			Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		CONTRACTOR OF THE	
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
534	18271	AA925267	е		ESTs
			1		ESTs, Moderately similar to hypothetical protein
535	23452	AA925289	99		MGC8974 [Homo sapiens] [H.sapiens]
				l.n	ESTs, Weakly similar to mitogen activated protein
	40.400			HHs:mitogen-activated protein	kinase kinase 1 [Rattus norvegicus]
. 536		AA925300	p,ee,ff,gg	kinase kinase kinase 3	[R.norvegicus]
537	5129	AA925335	i .		ESTs
538	5132	AA925342	h,I		ESTs, Highly similar to MYM1_MOUSE Myomesin 1 (Skelemin) [M.musculus]
539		AA925352	kk,ll		ESTs
540		AA925353	w,x,cc,dd		ESTs
541		AA925364	n,o		ESTs
542		AA925529	ee.ff		EST
					ESTs, Móderately similar to WDR1_MOUSE WD-
					repeat protein 1 (Actin interacting protein 1)
543	4285	AA925708	r,y,z,jj,kk		[M.musculus]
544	5206	AA925755	11	Glutaminase	Glutaminase
1					
					ESTs, Highly similar to T12483 hypothetical protein
545		AA925771	ii		DKFZp564B0769.1 - human (fragment) [H.sapiens]
546	23464	AA925876	l,m		ESTs
					ESTs, Highly similar to cytokine receptor-like factor
					1; cytokine receptor like molecule 3 [Mus musculus]
547		AA925924	I,o,kk		[M.musculus]
548	20345	AA925938	99		ESTs
549	E2E0	AA926089	.		ESTs, Highly similar to KIAA0164 gene product
550		AA926129	cc		[Homo sapiens] [H.sapiens]
330	17 137	AA320123	CC .		ESTs, Moderately similar to UCRY_HUMAN
1					Ubiquinol-cytochrome C reductase complex 6.4 kDa
551	16468	AA926137	hh		protein (Complex III subunit XI) [H.sapiens]
- 501	70700	7 0 10 20 10 1			EST, Weakly similar to ADP-ribosylation factor-like
552	20327	AA926265	cc,dd		5 [Rattus norvegicus] [R.norvegicus]
553		AA926305	h,i		ESTs
553	894	AA926305	h,I,n,o		ESTs
				Tyrosine 3-	*
				monooxygenase/tryptophan 5-	1
			1	monooxygenase activation	Tyrosine 3-monooxygenase/tryptophan 5-
554	3817	AA926328	p,q	protein, zeta polypeptide	monooxygenase activation protein, zeta polypeptide
				·	ESTs, Highly similar to hypothetical protein
555	9942	AA942697	d		MGC3133 [Homo sapiens] [H.sapiens]
	40000			<u> </u>	ESTs, Moderately similar to SUR2_MOUSE Surfeit
556	16909	AA942704	g		locus protein 2 (Surf-2) [M.musculus]
					ESTs, Highly similar to hematological and neurological expressed sequence 1 [Mus musculus]
557	ยบรถ	AA942716	d		Image: Image:
558		AA942718	s,t,kk	B cell lymphoma 2 like	B cell lymphoma 2 like
559		AA942770	e,y,z	is con ymphoma z tike	ESTs
560		AA942930	C,y,z 		ESTs
561		AA943015	cc,dd		ESTs
562		AA943016	u,v		ESTs
563		AA943020	jj,kk		ESTs
			<u> </u>		
]]			İ		ESTs, Highly similar to KFMS_RAT Macrophage
					colony stimulating factor I receptor precursor (CSF-
564	6691	AA943028	r,w,x		1-R) (Fms proto-oncogene) (c-fms) [R.norvegicus]
565		AA943099	cc,dd		ESTs
566		AA943114	ii .		ESTs
567	22187	AA943229	u,v		EST

TABLE 1		ConPosts A		<u> </u>	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc. No.		Known Gene Name	Unigene Sequence Cluster Title
oza ib	OCCO ID	NO. ,	Model code.	TOTOWN Gene Name	
					ESTs, Weakly similar to one twenty two protein;
568	12261	AA943240	og.		hypothetical protein FLJ12479 [Homo sapiens] [H.sapiens]
569	22218	AA943409	99 e		ESTs ESTs
570		AA943440	w,x		EST
571		AA943524	b		ESTs
572		AA943537		zuvin	
572		AA943537	y,z	zyxin zyxin	zyxin
573		AA943573	y,z d	ZyXIII	zyxin ESTs
574		AA943740	jj,kk		
575		AA943748)),NN		ESTs ESTs
	3030	77343740			ESTs, Moderately similar to ASPG_MOUSE N(4)-
		-			(beta-N-acetylglucosaminyl)-L-asparaginase
					precursor (Glycosylasparaginase)
					(Aspartylglucosaminidase) (N4-(N-acetyl-beta-
576	22217	AA943766	: 1.		glucosaminyl)-L-asparagine amidase) (AGA)
577			j,k		[M.musculus]
577		AA943981 AA943981	ii -		ESTs
		T	<u>r</u>		ESTs
578			99		ESTs
579			a,y,z,ee,ff,kk		ESTs
580			j,k		ESTs
581			u,v		ESTs
582			jj,kk		ESTs
583	12289	AA944383	99		ESTs ·
584			e,ee	HMm:heat shock protein, 86 kDa 1	ESTs, Moderately similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84) [R.norvegicus] ESTs, Highly similar to A49457 fibulin-2 precursor -
585	21998	AA944398	gg		mouse [M.musculus]
586		AA944413	p,q		ESTs
587	15476	AA944426	h,i	Calmodulin III	Calmodulin III
588	19480	AA94442	r,bb		ESTs, Weakly similar to SLI3_RAT SKELETAL MUSCLE LIM-PROTEIN 3 (SLIM 3) (LIM-DOMAIN PROTEIN DRAL) (FOUR AND A HALF LIM DOMAINS PROTEIN 2) (FHL-2) [R.norvegicus]
589	21522	AA944449	gg		ESTs, Moderately similar to SR68_HUMAN Signal recognition particle 68 kDa protein (SRP68) [H.sapiens]
590		AA944463	99 r		ESTs
			·		ESTs, Weakly similar to FCN2_RAT Ficolin 2
					precursor (Collagen/fibrinogen domain-containing protein 2) (Ficolin-B) (Ficolin B) (Serum lectin P35)
591	14763	AA944481	p,q		(EBP-37) (Hucolin) [R.norvegicus]
592			d d		ESTs
593			l,m		ESTs
594			j,kk		ESTs
595		AA944786	<u>,,,</u>		ESTs
596		AA944803	r		ESTs
597			j,k,jj,kk		ESTs
					ESTs, Highly similar to RIKEN cDNA 2610524G07
598	21581	AA944828	bb		[Mus musculus] [M.musculus]
	j	- 1			ESTs, Weakly similar to T19073 hypothetical
					protein C08B11.9 - Caenorhabditis elegans
599	21973	AA944840	s,t		[C.elegans]
600	22667	AA945069	p,q,y,z		ESTs, Highly similar to p34SEI-1; PHD zinc finger- and bromodomain-interacting protein 1 [Mus musculus] [M.musculus]

TABLE 1		GenBank Acc.	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ingle per la communitation of the communitation of	Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
601		AA945100	w,x		ESTs
	22000	701010100	 ",^	Rattus norvegicus	
			}	mitochondrial genome.	
3	19421	AA945152	bb	9/22Lengih = 16,3	dimethylarginine dimethylaminohydrolase 1
	10121	701010102	100	5/222crigit 10,0	ESTs, Highly similar to AMPL_HUMAN Cytosol
					aminopeptidase (Leucine aminopeptidase) (LAP)
					(Leucyl aminopeptidase) (Proline aminopeptidase)
000	20202	A A O 4 E 4 7 O	1_	I to be described as a contract of the contrac	
602		AA945172	e	HHs:leucine aminopeptidase 3	(Prolyl aminopeptidase) [H.sapiens]
603	14352	AA945181	99	<u> </u>	ESTS
					ESTs, Weakly similar to JC5105 stromal cell-
604		AA945591	n,o,w,x		derived factor 2 - mouse [M.musculus]
605		AA945601	hh		ESTs
605	22267	AA945601	99		ESTs
			j		
					ESTs, Highly similar to R5RT12 acidic ribosomal
606	24521	AA945636	g,h,l	<u> </u>	protein P1, cytosolic [validated] - rat [R.norvegicus]
					ESTs, Moderately similar to C3L1_MOUSE
					Chitinase-3 like protein 1 precursor (Cartilage
			ì		glycoprotein-39) (GP-39) (BRP39 protein)
607	22615	AA945643	kk		[M.musculus]
608		AA945679	i,k		ESTs
609		AA945704	p,q,ee,ff,ii		ESTs
610		AA945712	p,q,ee,n,n		ESTs
		AA945737	d,r,aa,bb	Chamalia accepta (LCD4)	
611			id,r,aa,bb	Chemokine receptor (LCR1)	Chemokine receptor (LCR1)
612		AA945750	ι		ESTs
613		AA945878	u,v		ESTs
614		AA945898	gg		ESTs
615		AA945910	cc,dd		ESTs
616		AA945932	t	Annexin A3	Annexin A3
617	22692	AA945986	jj,kk		ESTs
618	22697	AA945996	j,k,kk		ESTs
		•			ESTs, Highly similar to COXG_MOUSE
					Cytochrome c oxidase polypeptide VIb (AED)
619	20832	AA946040	hh		[M.musculus]
620		AA946046	l,m		ESTs
- 020	10001	7 10 100 10	1,,,,,		ESTs, Highly similar to ubiquitin-like 3 [Homo
621	22708	AA946063	u,v		sapiens] [H.sapiens]
- 021	22700	AA340003	lu,v		ESTs, Highly similar to catenin alpha-like 1; alpha-
					catenin related protein [Mus musculus]
coo	20744	A A O 4 C O 7 O	L 14.		
622		AA946072	r,y,z,kk		[M.musculus]
623		AA946203	n,o		ESTs
624		AA946224	lii		ESTs
625	23027	AA946264	aa,bb		ESTs
					ESTs, Highly similar to AR21_HUMAN ARP2/3
					complex 21 kDa subunit (P21-ARC) (Actin-related
626	19387	AA946275	а		protein 2/3 complex subunit 3) [H.sapiens]
627		AA946323	ii		ESTs
			1		ESTs, Highly similar to SNX5_MOUSE Sorting
628	884	AA946362	l _{ii}		nexin 5 [M.musculus]
629		AA946415	99	 	ESTs
630		AA946432	b,l,m	casein kinase I delta	casein kinase I delta
	2211	, 2 10-10-102	Ditti.	COSCIT KINGS I UCILA	ESTs, Highly similar to HSRT4 histone H4 - rat
624	640	V V D V E V S D	d		
631		AA946439	d	 	[R.norvegicus]
632		AA946469	hh	 	ESTs
633		AA946476	е		ESTs
634		AA955162	j,k,s,t		ESTs
635		AA955206	y,z,ee,ff		ESTs
6 36	22439	AA955213	ii		ESTs
637	22400	AA955248	w,x	T	ESTs

Gendark Acc. Gend	990-01-WO/2105485	5
ESTs, Weakly similar to T46637 transcrip	Cluster Title	
S33 23326 AA955415 n,o ESTs		cription factor
ESTS ESTS G3326 AA955540 D,q ESTS ESTS Weakly similar to T21697 hypother protein F40E10.6 - Caenorhabditis elegan C.elegans EST, Weakly similar to T21697 hypother protein F40E10.6 - Caenorhabditis elegan C.elegans C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to OKRT2R protein F40E10.6 - Caenorhabditis elegan C.elegans EST, ESTS, Highly similar to IST, MOUSE Pactivating factor acetylhydrolase 18 alpha (PAF acetylhydrolase 18 alpha (PAF acetylhydrolase 45 KDa subunit) PK	orvegicus]	
ESTS		
Protein F40E10.6 - Caenorhabditis elegan C.c.legans		
G41 12928 AA955564 e		
Color	Caenorhabditis elegan	gans
EST, EST, Highly similar to ORRTZR prokinase (EC 2.7.1.37), cAMP-dependent, alpha regulatory chain - rat (fragment) [R.norvegicus] ESTs, Weakly similar to LIST_MOUSE P activating factor acetylhydrolase IB alpha (PAF acetylhydrolase IB alpha (PAF acetylhydrolase IB alpha (PAF acetylhydrolase IB alpha (PAF acetylhydrolase IB alpha (PAF AH alpha)) PAF AH alpha) (PAF AH alpha) (PAF AH alpha) (PAF AH alpha) (PAF AH alpha) (PAF AH alpha) (PAF AH alpha) P		
Rinase (EC 2.7.1.37), cAMP-dependent, tapha regulatory chain - rat (fragment) Rinorvegicus	cimilar to OKDT2D pro	2 protoin
Apha regulatory chain - rat (fragment) R.norvegicus R.n		
643 5111 AA955729 f,g,l,m R.norvegicus ESTs, Weakly similar to LIST_MOUSE P activating factor acetylhydrolase IB alpha (PAF actylhydrolase 45 kDa subunit) (P kDa subunit) (PAF-AH alpha) (
ESTs, Weakly similar to LIS1_MOUSE P activating factor acetylhydrolase IB alpha (PAF acetylhydrolase 45 KDa subunit) (PAF-AH alpha) (PAFAH a	iam - rat (nagment)	ŗ
activating factor acetylhydrolase 18 alpha (PAF acetylhydrolase 45 kDa subunit) (PAF-AH alpha) (PAFAH alpha) (PA	lar to LIS1 MOUSE PI	E Platelet-
(PAF acetylhydrolase 45 kDa subunit) (PAFAH alpha) (PAFAH	etvlhydrolase IB alpha	pha subunit
Race Race		
Clissencephaly-1 protein) (LIS-1) [R.norv		
ESTs, Highly similar to TRBP_MOUSE T binding protein 2 (Protamine-1 RNA bind (PRM-1 RNA binding protein) [M.muscull EST, EST, Moderately similar to FBRL_M Fibrillarin (Nucleolar protein) [M.muscul Highly similar to S38342 fibrillarin - mous [M.musculus] 646 17540 AA955914 a [ESTs, Moderately similar to T43493 hype protein DKFZp434C119_1 - human [H.sa ESTs, Moderately similar to t43493 hype protein DKFZp434C119_1 - human [H.sa ESTs, Highly similar to biquitin conjugate for the state of the stat		
binding protein 2 (Protamine-1 RNA bind (PRM-1 RNA binding protein) [M.muscult EST, EST, Moderately similar to FBRL_M Fibrillarin (Nucleolar protein 1) [M.muscult Highly similar to S38342 fibrillarin - mous [M.muscultus]		
645 6658 AA955857 b,c,l,m (PRM-1 RNA binding protein) [M.muscult EST, EST, Moderately similar to FBRL Fibrillarin (Nucleolar protein 1) [M.muscult Highly similar to S38342 fibrillarin - mous [M.muscultus]	ar to TRBP_MOUSE T/	E TAR RNA-
EST, EST, Moderately similar to FBRL Fibrillarin (Nucleolar protein 1) [M.muscu Highly similar to S38342 fibrillarin - mous [M.musculus]		
Fibrillarin (Nucleolar protein 1) [M.muscutus] Fibrillarin (Nucleolar protein 1) [ng protein) (M.musculu	culus]
Highly similar to S38342 fibrillarin - mouse M.musculus ESTs, Moderately similar to T43493 hypotenin DKFzp434C119.1 - human [H.sa ESTs, Highly similar to Uniquitin conjugate enzyme [Rattus norvegicus] [R.norvegicus] ESTs	ately similar to FBRL_M	L_MOUSE
646 17540 AA955914 a [M.musculus]	ar protein 1) [M.muscul	sculus], ESTs
ESTs, Moderately similar to T43493 hyperotein DKFZp434C119.1 - human [H.sa	38342 fibrillarin - mouse	ouse
647 14327 AA956111 h, l protein DKFZp434C119.1 - human [H.sa ESTs, Highly similar to ubiquitin conjugated enzyme [Rattus norvegicus] [R.norvegicus] G49 498 AA956278 aa,bb ESTs EUKARYOTIC TRANSLATION INITIATIC FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF-3 THETA P167) (EIF3 P180) (EIF-3 THETA P167) (EIF-3 P180) (EIF-3 P185) (P162 F (CENTROSOMIN) [M.musculus] ESTs		
ESTs, Highly similar to ubiquitin conjugate enzyme [Rattus norvegicus] [R.norvegicus] ESTs ESTs		
648 23357 AA956114 cc,dd enzyme [Rattus norvegicus] [R.norvegicus] 649 498 AA956278 aa,bb ESTs 650 23409 AA956294 e ESTs 651 5210 AA956550 j,k ESTs 652 22899 AA956555 r,kk ESTs 653 23840 AA956689 I,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b EST 656 16543 AA956758 I,m EST ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA) P167) (EIF3 P180) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] (CENTROSOMIN) [M.musculus] 658 23927 AA957096 gg ESTs		
649 498 AA956278 aa,bb ESTs 650 23409 AA956294 e ESTs 651 5210 AA956550 j,k ESTs 652 22899 AA956555 r,kk ESTs 653 23840 AA956689 l,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 l,m EST 657 5990 AA956907 u,v ESTs 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN		
650 23409 AA956294 e ESTs 651 5210 AA956550 j,k ESTs 652 22899 AA956555 r,kk ESTs 653 23840 AA956689 l,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 l,m EST 657 5990 AA956907 u,v ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F G58 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN	orvegicus) [R.norvegicu	gicusj
651 5210 AA956550 j,k ESTs 652 22899 AA956555 r,kk ESTs 653 23840 AA956689 l,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 l,m ESTs 657 5990 AA956907 u,v ESTs 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN		
652 22899 AA956555 r,kk ESTs 653 23840 AA956689 l,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 l,m ESTs 656 16543 AA956758 l,m ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F GENTA P167) (EIF3 P180) (EIF3 P185) (P162 F GENTA P167) (EIF3 P180) (EIF3 P185) (P162 F GENTA P185) (P162 F		
653 23840 AA956689 I,m EST 654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 I,m ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN		
654 18296 AA956703 w,x ESTs 655 17495 AA956733 b ESTs 656 16543 AA956758 I,m ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs ESTs ESTs ESTS ESTS ESTS ESTS		
655 17495 AA956733 b ESTs 656 16543 AA956758 I,m EST, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs 659 23952 AA957096 gg ESTs ESTs, Weakly similar to NADE_HUMAN		
656 16543 AA956758 I,m EST ESTS, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA) P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 659 23952 AA957096 gg ESTS ESTS, Weakly similar to NADE_HUMAN		
ESTs, Highly similar to IF3A_MOUSE EUKARYOTIC TRANSLATION INITIATI FACTOR 3 SUBUNIT 10 (EIF-3 THETA) P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN		
FACTOR 3 SUBUNIT 10 (EIF-3 THETA P167) (EIF3 P180) (EIF3 P185) (P162 F (CENTROSOMIN) [M.musculus]		
P167) (EIF3 P180) (EIF3 P185) (P162 F CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs ESTs, Weakly similar to NADE_HUMAN		
657 5990 AA956907 u,v (CENTROSOMIN) [M.musculus] 658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 659 23952 AA957096 gg ESTs ESTs, Weakly similar to NADE_HUMAN	INIT 10 (EIF-3 THETA)	:TA) (EIF3
658 23927 AA957007 g glutathione S-transferase, mu 5 glutathione S-transferase, mu 5 ESTs 659 23952 AA957096 gg ESTs ESTs, Weakly similar to NADE_HUMAN	i) (EIF3 P185) (P162 Pi	i2 PROTEIN)
659 23952 AA957096 gg ESTs ESTs, Weakly similar to NADE_HUMAN) [M.musculus]	
ESTs, Weakly similar to NADE_HUMAN	sterase, mu 5	
ESTs, Weakly similar to NADE_HUMAN		
	-:Inch MADE HIMAN	44NI n75NITR.
associated cell death executor (Nerve g	anth executor (Mense or	ncus prousth facto
receptor associated protein 1) (Ovarian	au executor (Nerve gr	ian uranıılnea
I I I I I I I I I I I I I I I I I I I		
	on Horay (Hasapiens	10110]
663 23314 AA957270 p,q,ee,ff ESTs 664 24012 AA957335 b,d ESTs		
transforming growth factor beta 1 induced transforming growth gro	vth factor beta 1 induce	fuced transcrip
665 12529 AA957362 d 1 induced transcript 1		
ESTs, Highly similar to FCEG_RAT High	ilar to FCEG_RAT High	High affinity
immunoalobulin epsilon receptor gamm	epsilon receptor gamma	mma-subunit
precursor (FcERI) (IgE Fc receptor gam	l) (IgE Fc receptor gami	gamma-subuni
666 24040 AA957422 n,o,w,x (Fc-epsilon RI-gamma) [R.norvegicus]	ımma) [R.norvegicus]	ıs]

TABLE 1					Atty. Ref.: 44921-5090-01-WO/2105485
¥ :		GenBank Acc.	1	1 2 2 1/2 Men 15	7 (4) 1 (4) 1 (5) 1 (5) 5 (5) 1 (7) 1 (5)
SEQID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
667	24051	AA957452	a,jj,kk		ESTs
668		AA957535	а		ESTs
					ESTs, Weakly similar to RNB6 [Rattus norvegicus]
669	23732	AA957653	ee,ff		[R.norvegicus]
			100,		ESTs, Weakly similar to FBL5_RAT Fibulin-5
		ļ		İ	precursor (FIBL-5) (Developmental arteries and
					neural crest EGF-like protein) (Dance) (Embryonic
			1		vascular EGF repeat-containing protein) (EVEC)
670	24135	AA957736	n,o		[R.norvegicus]
		7.007700	 ",°		ESTs, Weakly similar to SNX9_HUMAN Sorting
					nexin 9 (SH3 and PX domain-containing protein 1)
671	23644	AA957808	99		(SDP1 protein) [H.sapiens]
672		AA957835	jj,kk,ll		ESTs [H.Sapiens]
673		AA963094	d		ESTs
 " 	20001	701000034	<u> </u>		
					ESTs, Weakly similar to heterogeneous nuclear
674	11500	AA963171	cc,dd		ribonucleoprotein A/B [Rattus norvegicus]
675		AA963173	ii		[R.norvegicus]
0,3	20203	AA303173	"		ESTs
676	2052	AA963260			ESTs, Moderately similar to A46613 protein 4.1,
677		AA963627	s,t ·		P4.1 - mouse [M.musculus]
6//	2113	AA903021	w,x		ESTs
1					
1			j		ESTs, Highly similar to P2G4_MOUSE Proliferation-
670	04040	4.4000700			associated protein 2G4 (Proliferation-associated
678		AA963703	a		protein 1) (Protein p38-2G4) [M.musculus]
679		AA963746	ſ		ESTs
680	62/6	AA963767	b,c,u,v		ESTs
					ESTs, Highly similar to S105_MOUSE S100
204					calcium-binding protein A5 (S-100D protein)
681		AA963834	l,m		[R.norvegicus]
682		AA963838	b		ESTs
683		AA964206	a		ESTs
684		AA964265	ll		ESTs
685		AA964362	cc,dd		ESTs
686	2373	AA964455	jj,kk		ESTs
					ESTs, Highly similar to ACTB_HUMAN Actin,
687		AA964496	a,z		cytoplasmic 1 (Beta-actin) [R.norvegicus]
688	2378	AA964501	t		ESTs
					ESTs, Weakly similar to C35D10.4.p
689	2142	AA964526	С		[Caenorhabditis elegans] [C.elegans]
690	2410	AA964589	kk		EST, ESTs
					ESTs, Moderately similar to treacle [Mus musculus]
691		AA964595	h,l,s,t		[M.musculus]
692		AA964613	l,m		ESTs
693		AA964617	u,v		ESTs
694		AA964755	a,q,y,z,ee,ff		ESTs
695	2476	AA964841	cc,dd		EST
]		l		ESTs, Moderately similar to A49947 interferon
696	2492	AA964866	u,v		gamma receptor beta subunit - mouse [M.musculus]
				Tissue inhibitor of	y and a second s
697	17232	AA965161	n	metalloproteinase 3	Tissue inhibitor of metalloproteinase 3
					ESTs, Moderately similar to RIKEN cDNA
698	2582	AA965164	g g		1810017F10 [Mus musculus] [M.musculus]
				······	1.0.30 111 To [mac masouras] [mindocaras]
					ESTs, Highly similar to T14795 hypothetical protein
699	15885	AA965207	lt l		DKFZp434E171.1 - human (fragment) [H.sapiens]
700		AA996451	r,jj,kk		ESTs
-اتتنسب					ICO10

TABLE 1		:		· · · · · · · · · · · · · · · · · · ·	Atty. Ref. 44921-5090-01-WO/2105485
CEO 10		GenBank Acc.			
SEQID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1					ESTs, Weakly similar to T18768 hypothetical
704	0004	4 4 000 000			protein B0491.7 - Caenorhabditis elegans
701		AA996583	ee,ff		[C.elegans]
702	2880	AA996658	b		EST
703	40200	A A O O C 7 4 O			EST, Moderately similar to A54981 TBD-associated
703	19390	AA996740	n,o		factor 30 - human [H.sapiens]
704	17/02	AA996832	1 m		ESTs, Moderately similar to hypothetical protein
705		AA996953	l,m u,v		FLJ11219 [Homo sapiens] [H.sapiens] ESTs
705		AA996955	W,X		ESTS
100	10430	AA30303	W,X		EST, Moderately similar to RED_MOUSE Red
					protein (RER protein) [M.musculus], ESTs, Highly
					similar to RED_MOUSE Red protein (RER protein)
707	8786	AA996993	d	1	[M.musculus]
708		AA997191	h,I		EST EST
709		AA997289	99		ESTs
710		AA997330	e,t,kk		ESTs
711		AA997341	e		ESTs
			-		ESTs, Weakly similar to S27393 sphingomyelin
					phosphodiesterase (EC 3.1.4.12), acidic, splice
712	3165	AA997386	n,o		form 1 precursor - mouse [M.musculus]
713		AA997412	r		ESTs
714			j,k,ee,ff,kk		ESTs
715	3242		d		ESTs
					ESTs, Highly similar to hypothetical protein
716	21119	AA997655	b		FLJ14566 [Homo sapiens] [H.sapiens]
717			jj,kk		ESTs
718			h,i,fi	fibrillin-1	fibrillin-1
719		AA997766	ii		ESTs
720	3265	AA997784	u,v_		EST
					ESTs, Moderately similar to T30249 cell
721	3269	AA997800	С		proliferation antigen Ki-67 - mouse (M.musculus)
1	Ì				ESTs, Weakly similar to A41220 transforming
700	0757	*******			growth factor beta receptor type III precursor - rat
722			bb,ll		[R.norvegicus]
723			ee,ff		ESTs
724 725			aa,bb		FOT
726			cc,dd		ESTs
120	3332	AA998006	<u> </u>		ESTs ESTs, ESTs, Weakly similar to MOZ_HUMAN
		i			r · · · · · · · · · · · · · · · · · · ·
727	3353	AA998053	ii		Monocytic leukemia zinc finger protein (Zinc finger protein 220) [H.sapiens]
141	0000	, 0.00000	17	brain-specific angiogenesis	brain-specific angiogenesis inhibitor 1-associated
728	3511	AA998152	ee,ff	inhibitor 1-associated protein 2	protein 2
729			kk		ESTs .
1 20					ESTs, Weakly similar to S37694 gene PC326
730	3390	AA998195	u,v		protein - mouse [M.musculus]
731			b,d		ESTs
732	3738	AA998256	y,z		ESTs
733	19458	AA998345	w,x		EST
734	3781	AA998375	b,u,v	•	ESTs
				adrenergic receptor kinase, beta	
735	3505	AA998430	w,x	1	adrenergic receptor kinase, beta 1
					ESTs, Moderately similar to CDNC_MOUSE
					CYCLIN-DEPENDENT KINASE INHIBITOR 1C
	_				(CYCLIN-DEPENDENT KINASE INHIBITOR P57)
736	2782		c,I,m		(P57KIP2) [M.musculus]
737	22737		ii i		ESTs

TABLE 1		Carbart Area	 	Maria de la Maria de Calendario de Calendari	Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc:	Model Code	Known Gene Name	Unigene Sequence Cluster Title
OLG ID.	0200 10	110.	Woder Code ;	Another Control (Action)	ESTs, Moderately similar to T00051 hypothetical
700	0500	A A 000070			
738	2526	AA998979	u,v		protein KIAA0404 - human (fragment) [H.sapiens]
					ESTs, Weakly similar to MAPE_HUMAN Melanoma
	1				
	1			·	antigen preferentially expressed in tumors
		_			(Preferentially expressed antigen of melanoma)
739		AA999110	a,ee,ff,kk		(OPA-interacting protein 4) (OIP4) [H.sapiens]
740	25137	AB005540	cc,dd		
'	1			translocator of inner	
	<u> </u>			mitochondrial membrane 17	translocator of inner mitochondrial membrane 17
741	11745	AB006450	hh,jj,kk	kDa, a	kDa, a
			1	DNA (cytosine-5-)-	ESTs, Highly similar to JE0378 DNA (cytosine-5-)-
742	21666	AB012214	n,o	methyltransferase 1	methyltransferase (EC 2.1.1.37) - rat [R.norvegicus]
743		AB012231	jį,kk	nuclear factor I/B	nuclear factor I/B
			""		Rattus norvegicus mRNA for G protein-coupled
744	15772	AB015645	cc,dd	_	receptor, complete cds
	10.72	715010010	00,00	peroxisomal membrane anchor	i soopto, i sampata sas
745	22567	AB017544	aa	protein	peroxisomal membrane anchor protein
743	22307	AD017344	100	actinin alpha 2 associated LIM	peroxisornal membrane anonor protein
740	2700	VEUUJJ04	n u v oo ff kk li		actinin alpha 2 associated LIM protein
746		AF002281 AF016296	p,u,v,ee,ff,kk,ll	protein	Rattus norvegicus neuropilin mRNA, complete cds
747			e,j,k,cc,dd,kk	P : : : : : : : : : : : : : : : : : : :	
748		AF016387	jj,kk	retinoid X receptor gamma (retinoid X receptor gamma (
748		AF016387	jj,kk	retinoid X receptor gamma (retinoid X receptor gamma (
749	23044	AF034218	j,k	hyaluronidase 2	hyaluronidase 2
750		AF054618	ee,ff	cortactin isoform B	cortactin isoform B
751	2881	AF056034	b,d,u,v	nexilin	nexilin
			1	nucleosome assembly protein 1-	
752	16006	AF062594	99	like 1	nucleosome assembly protein 1-like 1
				nucleosome assembly protein 1-	
752	16007	AF062594	hh	like 1	nucleosome assembly protein 1-like 1
753	20741	AF084186	s,t	alpha-fodrin	alpha-fodrin
754	21957	AF087437	f	core binding factor beta	ESTs
755	18731	AF093139	d	tip associating protein	tip associating protein
	†			ubiquitin-conjugating enzyme	
756	2947	AF099093	u,v	UBC7	ubiquitin-conjugating enzyme UBC7
757		AF110508	b		, , , , , , , , , , , , , , , , , , , ,
758		AI007656	d		ESTs
759		Al007744	e,jj,kk		ESTs
760		AI007770	j,k		ESTs
- , , , ,	7010	,	"	Rattus norvegicus	
1		1		mitochondrial genome.	
۱ ,	1004	A1007824	1.	9/22Length = 16,3	
<u> </u>	1004	A1007824	- 	HGF-regulated tyrosine kinase	
	40400	A1007057	ļ		LICE regulated tyrogina kingga substrata
761		A1007857	u,v	substrate	HGF-regulated tyrosine kinase substrate
762	4 11/28	AI007884	-		ESTs Lichtus cimiles to BIVEN aDNA 1500006000
			l.		ESTs, Highly similar to RIKEN cDNA 1500006009
763	11368	A1007948	l,m		[Mus musculus] [M.musculus]
		1			
1				}	ESTs, ESTs, Highly similar to HS9B_RAT Heat
764		Al008074	r,l)		shock protein HSP 90-beta (HSP 84) [R.norvegicus
765	4052	AI008095	jj,kk		ESTs
					ESTs, Weakly similar to YJ95_CAEEL
l		1			HYPOTHETICAL 52.8 KD PROTEIN T05E11.5 IN
766	2657	AI008275	u,v		CHROMOSOME IV [C.elegans]
767		Al008371	r		ESTs
	,	1		 	
		1			ESTs, Highly similar to UBX domain-containing 2

TABLE 1			•		Atty: Ref. 44921-5090-01-WO/2105485
050		GenBank Acc.			
SEQID	GLGC ID	No.	Model Code	Known Gene Name	
					ESTs, Weakly similar to DJB1_MOUSE DnaJ
					homolog subfamily B member 1 (Heat shock 40 kDa
700	2000				protein 1) (Heat shock protein 40) (HSP40)
769		A1008643	p,q,ee,ff		[M.musculus]
770	11325	AI008647	y,z		ESTs
					ESTs, Weakly similar to TAC1_HUMAN
,	40000	4.1000000	i .		Transforming acidic coiled-coil-containing protein 1
771	12398	A1008689	s,t		[H.sapiens]
		1			ESTs, Highly similar to ACES_RAT
770	2024	A1000007	<u> </u>		Acetylcholinesterase precursor (AChE)
772 773		Al008697 Al008701	n,o		[R.norvegicus]
774		AI008701	U,V	Discould I Pil 4	ESTs
	1100	A1000736	jj,kk	Dipeptidyl peptidase 4	Dipeptidyl peptidase 4
775	19125	AI008787			ESTs, Highly similar to S16788 probable reverse
776		A1008787	f,g cc,dd		transcriptase - rat [R.norvegicus]
777		AI008785			ESTs
'''	3032	L/1000909	n,o		ESTs Weekly similar to chimagin (chimagria) 1
778	3 279	A1008988	v 7	HHerbrookpoint alustes seeis-	ESTs, Weakly similar to chimerin (chimaerin) 1
- ''	3210	71000900	y,ż	HHs:breakpoint cluster region	[Rattus norvegicus] [R.norvegicus] ESTs, Moderately similar to EAR2_RAT Orphan
			ļ		Inuclear receptor EAR-2 (V-erbA related protein EAR
					2) (Ovalbumin upstream promoter gamma nuclear
779	16652	Al009019	b		receptor rCOUPg) [R.norvegicus]
- ,,,,	10002	711003013	<u> </u>	double-stranded RNA-binding	receptor (COOPg) [K.norvegicus]
780	23337	AI009096	i,m	protein p74	double-stranded RNA-binding protein p74
	20001			protein pr 4	dodole-stranded (NVA-billding protein p74
					ESTs, Highly similar to BAG2_HUMAN BAG-family
781	21632	AI009167	a,y,z,ee,ff		molecular chaperone regulator-2 [H.sapiens]
			-,,,,,		ESTs, Weakly similar to rhoB gene [Rattus
782	21596	AI009168	j,k		norvegicus] [R.norvegicus]
					ESTs, Moderately similar to hypothetical protein
783	22801	AI009197	e		IMAGE3455200 [Homo sapiens] [H.sapiens]
					ESTs, Highly similar to UNRI_MOUSE UNR-
1					interacting protein (Serine-threonine kinase receptor
784			h,i		associated protein) [M.musculus]
785	3755	AI009208	h,l		ESTs
					ESTs, Weakly similar to C37H5.3.p
786		A1009350	d		[Caenorhabditis elegans] [C.elegans]
787	3979	AI009368	s,t		ESTs
					ESTs, Highly similar to RS3_MOUSE 40S
788	10820	Al009411	g,h,l	· · · · · · · · · · · · · · · · · · ·	ribosomal protein S3 [R.norvegicus]
789		AI009420		synaptic vesicle glycoprotein 2 b	synaptic vesicle glycoprotein 2 b
790	4154	AI009467	kk		ESTs
704	C-40	A1000555			Rattus norvegicus dynein light intermediate chain 1
791		A1009555	<u>r</u>		mRNA, complete cds
792 793			ii l		ESTs
793			h,l		ESTs
194	4100	A1008004	li		ESTs
795	16154	A1009661	,		ESTs, Moderately similar to AF1Q_MOUSE Protein
796			a b,c,v		AF1Q [M.musculus]
797		Al009073	1		EST ESTs
798			a		
799			gg	transducer of ERBB2, 1	transducer of ERBB2, 1
800			j,k		ESTs ESTs
801			u,v		ESTs .
802			j,k		ESTs ESTs
803			g		EST
			7 1		LUI

TABLE 1		•			Atty. Ref. 44921-5090-01-WO/2105485
· .41-		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
804		AI010084	l,m		ESTs
805		Al010108	s,t		ESTs
806	4177	Al010123	aa,bb		ESTs
807	3316	AI010237	ii		ESTs
808	2612	AI010241	aa,bb		ESTs
809		AI010256	kk	H3 histone, family 3B	H3 histone, family 3B
810		AI010275	11		ESTs
811		AI010303	g		ESTs
812		AI010312	l,m		ESTs
813		AI010418	cc,dd		ESTs
710	2,025	7.10.10			ESTs, Weakly similar to DNA-directed RNA
				ì	polymerase I like [Caenorhabditis elegans]
814	10778	A1010455	w,x		[C.elegans]
815		Al010568	ij,kk	Growth hormone receptor	Growth hormone receptor
			j], NN	Growth normone receptor	ESTs .
816	6936	Al010593	<u> </u>		ESTs, Moderately similar to S63665 titin protein -
	4000	11040005	ļ.		
817		A1010605	b		human (fragment) [H.sapiens]
818		AI010612	n,o,hh		ESTs
819		AI010616	е		ESTs
820		AI010618	ee,ff		ESTs
821		AI010642	jj,kk,ll		ESTs
822	11227	AI010660	С		ESTs
					ESTs, Highly similar to S37488 gene T10 protein -
823	17761	AI010662	c,r		mouse [M.musculus]
824	6984	AI010848	f,g		ESTs
825	24089	AI010865	e,n,o		ESTs
826		AI010917	а		ESTs
827		AI010930	e,r	ribosomal protein L14	ribosomal protein L14
828		AI010936	jj,kk		ESTs, Moderately similar to PTN3_HUMAN Protein tyrosine phosphatase, non-receptor type 3 (Protein-tyrosine phosphatase H1) (PTP-H1) [H.sapiens] ESTs, Moderately similar to PTN3_HUMAN Protein tyrosine phosphatase H1) (PTP-H1) [H.sapiens]
829		AI011020	11		Myotubularin [M.musculus]
830	5983	AI011070	aa,bb,gg		ESTs
	22030	Al011177	h,i	Rattus norvegicus mitochondrial genome. 9/22Length = 16,3	ESTs, Moderately similar to 0806162L protein URF5 [Mus musculus] [M.musculus] ESTs, Highly similar to CU59_HUMAN Protein
				1	
831		Al011462 Al011474	cc,dd a,ee,ff,ll		C21orf59 [H.sapiens] ESTs, Moderately similar to T00637 hypothetical protein H_GS541B18.1 - human (fragment) [H.sapiens]
83:		7 Al011498	b	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2
83	4 706	Al011547	b		ESTs, Highly similar to T47183 hypothetical protein DKFZp434K1822.1 - human (fragment) [H.sapiens ESTs, Moderately similar to LMA5_MOUSE
83	5 304	1 Al011598	t,kk	1	Laminin alpha-5 chain precursor [M.musculus]
83		0 Al011644	e		ESTs
					ESTs
83		B AI011749	cc,dd		ESTs
83		9 AI011770	y,z	Homoglobia bota	Hemoglobin, beta
83		0 Al011943	C	Hemoglobin, beta	
84	U 1462	5 Al011949	cc,dd	Des hamalag acres (amilie	ESTs
84	1 253	1 Al011991	n,o	Ras homolog gene family, member G	Ras homolog gene family, member G

TABLE 1	<u> </u>	7.77	,		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	1 1 2 4		
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	1		1	1	ESTs, Highly similar to LSP1_MOUSE Lymphocyte
	ļ			i	specific proteins LSP1 and S37 (PP52 protein) (52
i]		ł		kDa phosphoprotein) (Lymphocyte-specific antigen
842	24038	AI012109	w,x		WP34) (S37 protein) [M.musculus]
843	2341	AI012144	d		ESTs
					ESTs, Highly similar to S14538 transition protein -
844	13093	AI012177	h,t		mouse [M.musculus]
845		AI012185	bb		ESTs
846		AI012208	jj,kk		ESTs
		7.10.12200	JJ.KK		ESTs, Weakly similar to intracellular chloride ion
	İ				channel protein p64H1 [Rattus norvegicus]
847	21706	AI012221	o n o y z kk		
			a,n,o,x,z,kk		[R.norvegicus]
848		AI012271	d		ESTs
849		Al012308	a,n,o,x,hh,kk		ESTs
850		AI012353	u,v		ESTs
851		AI012356	j,k,gg		ESTs
852	7471	AI012379	p,q		ESTs
	İ		İ		ESTs, Weakly similar to hypothetical protein 24432
853	23385	Al012380	b		[Homo sapiens] [H.sapiens]
					ESTs, Weakly similar to JE0343 terf protein - rat
854	7120	AI012393	v		[R.norvegicus]
855	2456	AI012423	ii		ESTs
856	22651	AI012434	e		ESTs
					ESTs, Weakly similar to UBP2_MOUSE Ubiquitin
					carboxyl-terminal hydrolase 2 (Ubiquitin
	·				thiolesterase 2) (Ubiquitin-specific processing
					protease 2) (Deubiquitinating enzyme 2) (41 kDa
857	5505	Al012467	,		
007	3030	AIU12401	u,v		ubiquitin-specific protease) [M.musculus]
050	2204	41040474			ESTs, Weakly similar to Y48B6A.6.p
858	3304	AI012471	jj,kk		[Caenorhabditis elegans] [C.elegans]
050					ESTs, Weakly similar to T47155 hypothetical
859	14431	AI012516	h,i		protein DKFZp564B0982.1 - human [H.sapiens]
				unconventional myosin Myr2 I	
860	17489	AI012566	d	heavy chain	unconventional myosin Myr2 I heavy chain
					ESTs, Weakly similar to T00357 hypothetical
861	23025	Al012621	j,k		protein KIAA0685 - human [H.sapiens]
					ESTs, Weakly similar to RBMA_RAT RNA-binding
					protein 10 (RNA binding motif protein 10) (S1-1
862	6489	AI012636	i)		protein) [R.norvegicus]
					ESTs, Highly similar to I48722 zinc finger protein -
863	7044	Al012641	l,m	•	mouse (fragment) [M.musculus]
864		Al012761	cc,dd		ESTs
865		Al012832	ii,ll	stannin	stannin
866		AI012958	w,x	- Committee	ESTs
867		AI013033			ESTs
- 307	7 193	7.10 10000	<u>gg</u>		ESTs, Moderately similar to hypothetical protein
868	2404	AI013075	l,		
			l,m	<u> </u>	FLJ14621 [Homo sapiens] [H.sapiens]
869	1220	Al013098	t		ESTs
~~~	10000	41040400			ESTs, Weakly similar to I63168 gene Ube1x protein
870	16686	Al013160	u,v		- rat (fragment) [R.norvegicus]
					ESTs, Highly similar to EF1G_MOUSE Elongation
					factor 1-gamma (EF-1-gamma) (eEF-1B gamma)
	16984	Al013161	aa,bb		[M.musculus]
871				District in the A	
				Platelet-derived growth factor A	
871 872	1332	Al013222	е	chain growth factor A	ESTs, Platelet-derived growth factor A chain
	1332	Al013222 Al013260	e Z	I . •	ESTs, Platelet-derived growth factor A chain

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
دده ام	GLGC ID	GenBank Acc.		<b>.</b>	
SECULO	GLGC ID	NO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
875	6758	AI013394	d,jj,kk	neparan sulfate (glucosamine) 3- O-sulfotransferase 1	heparan sulfate (glucosamine) 3-O-sulfotransferase
876		AI013396	cc,dd	O-sullonalisterase 1	
877		AI013397	ii		ESTs
				· · · · · · · · · · · · · · · · · · ·	ESTs, Highly similar to chromosome 20 open
					reading frame 30; HSPC274 protein [Homo sapiens]
878	23444	AI013448	d		[H.sapiens]
					ESTs, Moderately similar to KIAA1049 protein
879	22493	AI013466	cc,dd		[Horno sapiens] [H.sapiens]
880	12222	A1042474			ESTs, Highly similar to HPS1_HUMAN Protein
881		Al013474 Al013477	y,z,ee,ff		PHPS1-2 [H.sapiens] Rat VL30 element mRNA
001	1300	A1013411	99		ESTs, Weakly similar to R10D12.12.p
882	12796	AI013495	u,v,cc,dd		[Caenorhabditis elegans] [C.elegans]
883		AI013499	u,v		EST
884		AI013558	t	,, ,,	ESTs
					ESTs, Weakly similar to FIBB_RAT Fibrinogen beta
					chain precursor [Contains: Fibrinopeptide B]
885	4253	AI013566	jj,kk		[R.norvegicus]
				•	ESTs, Weakly similar to T46337 hypothetical
000	0.445	11040704			protein DKFZp434O2413.1 - human (fragment)
886	3445	Al013724	e		[H.sapiens]
887	22502	Al013740	n o w v		ESTs, Moderately similar to S32567 A4 protein -
888		AI013740	n,o,w,x w,x	Arrestin, beta 2	human [H.sapiens] Arrestin, beta 2
- 000	10001	71010700	w,^	3-hydroxyisobutyrate	Allestin, beta 2
889	21950	AI013861	a,h,I	dehydrogenase	3-hydroxyisobutyrate dehydrogenase
890		AI013865	d	, , , , , , , , , , , , , , , , , , , ,	ESTs
					ESTs, Highly similar to S53612 gene MSSP-2
891	2708	AI013882	r,y,z		protein - human [H.sapiens]
	77000				ESTs, Weakly similar to cold inducible RNA-
892		AI013911	lt Iii		binding protein [Rattus norvegicus] [R.norvegicus]
893 894		Al013913 Al013924	b,l,m		ESTs ESTs
895		Al013971	l,m	neurofascin	neurofascin
	- 10001	711010011	1,111	nediolasan	ESTs, Weakly similar to PMX1_MOUSE Paired
1					mesoderm homeobox protein 1 (PRX-1) (Paired
					related homeobox protein 1) (Homeobox protein
					MhoX) (Homeobox protein K-2) (Rhox)
896	7212	Al014065	99		[R.norvegicus]
					ESTs, Weakly similar to DPSD_CAEEL Putative
897	15404	Al014094			phosphatidylserine decarboxylase proenzyme
- 097	15494	AIU 14094	s,t	Rattus norvegicus	[C.elegans]
				mitochondrial genome.	
6	19372	AI014135	h	Ü	beta-carotene 15, 15'-dioxygenase
		- ' i		Rattus norvegicus	
				mitochondrial genome.	
6	1808	AI014135	e,u,v		beta-carotene 15, 15'-dioxygenase
				upregulated by 1,25-	
898	15247	Al014169	aa,bb	dihydroxyvitamin D-3	upregulated by 1,25-dihydroxyvitamin D-3
					ESTs, Weakly similar to mitogen activated protein kinase kinase 5; MEK kinase 5 [Mus
899	7315	A1028831	j,k,kk		musculus] [M.musculus]
900		AI028856	j,k,kk j,k,y,z		musculusį (M.musculus) ESTs
901		AI028870	b,l,m,u,v		ESTs
			- /1-1		ESTs, Weakly similar to PT0194 protein-tyrosine
					kinase (EC 2.7.1.112) tyro-12 - rat (fragment)
		AI028954	ii		[R.norvegicus]

TABLE 1	124,433				Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
SECTIO	GLGC ID	NO.	Model Code		Unigene Sequence Cluster Title
903	17057	A1028975		Adaptor protein complex AP-1, beta 1 subunit	Adaptor protein complex AP-1, beta 1 subunit
903	17937	A1020975	s,t	Deta i subunit	ESTs, Weakly similar to sequence-specific single-
			į		stranded-DNA-binding protein [Rattus norvegicus]
904	5/22	AI028998			[R.norvegicus]
905		Al020990 Al029015	u,v ee,ff		ESTs
906		AI029026	kk		ESTs
907		Al029051	e		ESTs
908		Al029031	a,jj,kk		ESTs
909		Al029179	d,ee,ff,jj,kk,ll		ESTs
910		Al029432	u,v		COT
911		A1029432 A1029437		ļ	ESTs .
911	12019	A1029437	jj,kk		ESTS, Moderately similar to SYEP_HUMAN
			1		Bifunctional aminoacyl-tRNA synthetase [Includes:
Į.					
ł					Glutamyl-tRNA synthetase (Glutamate—tRNA
	7,54	11000 (50	1.		ligase); Prolyl-tRNA synthetase (ProlinetRNA
912		A1029450	y,z		ligase)] [H.sapiens]
913	/493	AI029608	y,z		ESTs
					ESTs, Weakly similar to S46814 ribosomal protein
	40000		1.		YmS2, mitochondrial - yeast (Saccharomyces
914	18885	A1029827	d		cerevisiae) [S.cerevisiae]
					ESTs, Highly similar to CAV1_MOUSE Caveolin-1
915		A1029942	jj,kk		[M.musculus]
916		AI030028	е		ESTs
917		AI030067	99		ESTs
918		AI030163	lt		ESTs
919		AI030213	cc,dd		ESTs
920		AI030276	u,v		ESTs
921		AI030301	99		ESTs
922		AI030430	r		ESTs
923		AI030494	ee,ff		ESTs
924		AI030527	u,v		ESTs
925	7715	Al030599	l,m,ii		ESTs
			Ì	nucleosome assembly protein 1-	
926		AI030668	а	like 1	nucleosome assembly protein 1-like 1
927	7751	A1030750	p,q		ESTs
					Rat (diabetic BB) MHC class II alpha chain RT1.D
928		AI030775	m		alpha (u)
929		Al030797	aa,bb		ESTs
930		AI030806	kk		ESTs
931	17552	AI030833	u,v		ESTs
}			1		ESTs, Weakly similar to B39066 proline-rich protein
932	22614	Al031004	t		15 - rat [R.norvegicus]
1				translation initiation factor elF-	
933		Al031019	s,t	2B alpha-subunit	translation initiation factor eIF-2B alpha-subunit
934	7842	AI031052	aa,bb		ESTs
	j				ESTs, Highly similar to GDP-mannose
1					pyrophosphorylase B, isoform 2; mannose-1-
l			ľ		phosphate guanylyltransferase [Homo sapiens]
935		Al031058	h,I		[H.sapiens]
936		Al031059	11		ESTs
937	7852	AI043636	aa,bb,gg		ESTs
				phosphoribosyl pyrophosphate	
938	7867	AI043695	t	amidotransferase	phosphoribosyl pyrophosphate amidotransferase
					ESTs, Weakly similar to T17271 hypothetical
939		Al043714	ii		protein DKFZp434B0335.1 - human [H.sapiens]
940		Al043724	99		ESTs
941		AI043798	f,g	T	ESTs
	,		פויון	P	15013

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
0-0 -		GenBank Acc.		· 19 1、1 - 网络病、1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	<ul> <li>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</li></ul>
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1					ESTs, Weakly similar to ELL_MOUSE RNA
i	İ	1		Ì	POLYMERASE II ELONGATION FACTOR ELL
		}		1	(ELEVEN-NINETEEN LYSINE-RICH LEUKEMIA
943		AI043849	ee,ff	1	PROTEIN) [M.musculus]
944	3899	AI043904	u,v		ESTs
945	6766	AI043914	h,i		ESTs
			į		ESTs, Weakly similar to TC17_RAT Zinc finger
1					protein 354A (Transcription factor 17) (Renal
			l		transcription factor Kid-1) (Kidney, ischemia, and
946		AI044042	l,m	<u>.</u>	developmentally regulated protein-1) [R.norvegicus]
947	5370	AI044087	u,v		EST
948	5371	AI044089	cc,dd		EST
949		AI044101	99		ESTs
950	5378	Al044112	1,m		ESTs
951	9838	A1044124	ii		ESTs
952	12778	AI044211	cc,dd		ESTs
953		AI044253	d		EST
954	6745	A1044258	ii		ESTs
955		AI044271	u,v		ESTs
956		Al044299	y,z,ee,ff		ESTs
957	5454	AI044330	cc,dd		ESTs
958	5461	AI044338	a,y,z,kk		ESTs
959	5486	AI044397	99		ESTs
960	5513	Al044521	ii		EST
961	6997	AI044539	С		ESTs
962	9876	AI044553	l,m		ESTs
963	5553	AI044632	l,m		ESTs
964			U,V		ESTs
965	5596	AI044747	g,kk		ESTs
966			j,k		ESTs
967	5322	AI044801	C		ESTs
					ESTs, Weakly similar to T12482 hypothetical
					protein DKFZp564P0662.1 - human (fragments)
968	7992	AI044845	cc,dd,gg	1	[H.sapiens]
969		AI044855	aa,bb		ESTs
970			е		ESTs
971	6496	AI044887	u,v		ESTs
				fatty acid Coenzyme A ligase,	
972		A1044900	a,h,l,ee,ff,kk	long chain 2	fatty acid Coenzyme A ligase, long chain 2
973	5675	11045000	,k,p,q,ee,ff,kk		ESTs
T					ESTs, Weakly similar to T15251 hypothetical
[	l				protein K07B1.4 - Caenorhabditis elegans
974	24290	A1045040	cc,dd		[C.elegans]
					ESTs, Weakly similar to Exonuclease
975			đ		[Caenorhabditis elegans] [C.elegans]
976			b,u,v		ESTs
977	5775	AI045378	ee,ff,gg		ESTs
978		AI045441	I		ESTs
979			d,jj,kk		ESTs
980	10004	Al045509	gg,ii		ESTs
1					ESTs, Highly similar to S30034 translocating chain-
981			N,X		associating membrane protein - human [H.sapiens]
982	10020	N045632 I	ς,y,z		ESTs
			-		ESTs, Weakly similar to CBP_MOUSE CREB-
983			e		binding protein [M.musculus]
984	10028	N045707 r	1,0		ESTs
					·

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc. No.	Model Code	Known Gene Name	Unigene Sequence Cluster Titlè
				Solute carrier family 4, member	
	}			1, anion exchange protein 1	Solute carrier family 4, member 1, anion exchange
985		AI045744	b,u,v	(kidney band 3)	protein 1 (kidney band 3)
986		AI045836	u,v		ESTs
987		AI045911	cc,dd		ESTs
988		AI045929	b		ESTs
989		AI045948	n,o		ESTs
990		AI045989	b,l,m		ESTs
991	8012	AI058330	ee,ff,kk	decay-accelarating factor	decay-accelarating factor
					ESTs, Weakly similar to T46465 hypothetical
992		Al058359	s,t		protein DKFZp434A0530.1 - human [H.sapiens]
993		AI058419	u,v,aa,bb	`	ESTs
994		Al058451	u,v		ESTs
995	8627	AI058453	i,m		ESTs
			Ì		EST, Weakly similar to RRM2_HUMAN Putative
		:			ribosomal RNA methyltransferase 2 (rRNA (uridine-
996	10070	AI058505	u,v		2'-O-)-methyltransferase) [H.sapiens]
				1	ESTs, Highly similar to Nedd4 WW binding# protein
		ļ			4; Nedd4 WW-binding protein 4 [Mus musculus]
997		AI058507	a		[M.musculus]
998		AI058527	v		ESTs
999		Al058653	u,v		
1000		AI058665	d		ESTs
1001		AI058772	n,o		EST
1002	8158	Al058824	u,v		ESTs
					ESTs, Highly similar to SUI1_MOUSE Protein
1003		AI058869	i,m		translation factor SUI1 homolog [M.musculus]
1004		AI058890	r		ESTs
1005		AI058942	u,v		ESTs
1006		AI059175	e	pericentriolar material 1	pericentriolar material 1
1007		AI059209	u,v		EST
1008		AI059246	cc,dd		EST
1009		Al059298	cc,dd		ESTs
1010		AI059312	ee,ff		ESTs
1011		AI059313	b		EST
1012		AI059352	s,t		ESTs
1013	8314	Al059386	p,q		ESTs
					ESTs, Weakly similar to NCP1_RAT Nck-
	1	1			associated protein 1 (NAP 1) (p125Nap1)
	İ				(Membrane-associated protein HEM-2)
1014	8729	AI059485	w,x		[R.norvegicus]
		i '	1	1	ESTs, Weakly similar to EGRT epidermal growth
1015	8347	AI059519	n,o		factor precursor - rat [R.norvegicus]
l					ESTs, Weakly similar to pseudouridylate synthase;
					orf, hypothetical protein [Escherichia coli K12]
1016		A1059543	b		[E.coli]
1017		Al059549	l,m		ESTs
1018		3 Al059664	ii		ESTs
1019	9 8423	3 AI059728	cc,dd		EST
1					EST, Weakly similar to T42092 s-afadin - rat
1020		AI059925	u,v		[R.norvegicus]
102	1 8494	4 Al059968	a		ESTs
	1				ESTs, Weakly similar to 2205324A lymphotoxin
102		AI059971	a,t		beta receptor [Mus musculus] [M.musculus]
102		2 Al060137	cc,dd		EST
102		7 Al060221	u,v		ESTs
102	5 874	AI069939	lt		ESTs
				HHs:growth arrest and DNA-	ESTs, Weakly similar to 2104282A Gadd45 gene
102	6 1750	6 A1070068	p,q	damage-inducible, beta	[Rattus norvegicus] [R.norvegicus]

TABLE '					Alty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
	GLGC ID		Model Code:	Known Gene Name	Unigene Sequence Cluster Title
1027	2742	Al070173	а		ESTs
4000	4007			·	ESTs, Highly similar to JC7218 glia maturation
1028	4967	AI070179	w,x		factor-gamma - rat [R.norvegicus]
1000	40	41070405	1		ESTs, Highly similar to T42648 hypothetical protein
1029		Al070195 Al070214	w,x		DKFZp434C1415.1 - human [H.sapiens]
1030		AI070214 AI070285	l,m aa,bb		ESTs ESTs
1031		AI070265 AI070392	+ <del>'</del>		
1032		AI070592 AI070508	b,u,v ii		ESTs ESTs
1033		AI070590	a,ee,ff,kk		ESTs ESTs
1035		AI070660	99		EST
1036		AI070697	b,u,v		EST
1037		AI070710	d		ESTs
1038		AI070726	h,l	1	ESTs
1039		Al070775	a		ESTs
1040		AI071049	d		ESTs
1041		Al071131	u,v		ESTs
1042	23437	Al071166	r		ESTs
1043	9579	Al071174	d		ESTs
1044		AI071185	y,z,kk		ESTs
1045	11017	Al071222	C'L		ESTs
					ESTs, Weakly similar to I48842 testin - mouse
1046		AI071230	ee,ff,gg		[M.musculus]
1047		Al071285	ii		ESTs
1048		AI071429	d		ESTs
1049	9668	AI071538	г		ESTs
					ESTs, Moderately similar to S29993 P311 protein -
1050	22929	AI071578	ee,ff,kk		mouse [M.musculus]
4050	20000	11074570			ESTs, Moderately similar to S29993 P311 protein -
1050 1051		AI071578 AI071586	g,jj,kk		mouse [M.musculus]
1051		Al071566 Al071698	gg hh		ESTs
1052		Al071703			ESTs ESTs
1000	11000	AIO/ 1/03	p,q		ESTS, Highly similar to RIKEN cDNA 1110003N24
1054	8712	AI071935	b,u,v		[Mus musculus] [M.musculus]
1055		Al071958	b		ESTs
1000	0.00				ESTs, Moderately similar to T17342 hypothetical
]					protein DKFZp586K1924.1 - human (fragment)
					[H.sapiens], R.norvegicus hsp70.2 mRNA for heat
1056	8665	Al071965	ee,ff		shock protein 70
1057	9801	Al072019	b		ESTs
1058		AI072036	aa,bb		ESTs
1059	9808	AI072050	n,o		ESTs
					ESTs, Moderately similar to S11276 alpha-adaptin c
1060			n,o		- rat [R.norvegicus]
1061	9186	AI072088	b		ESTs
					ESTs, Highly similar to DYNC_HUMAN Dynactin
-4000		A1070000			complex 50 kDa subunit (50 kDa dynein-associated
1062		A1072092	l,m		polypeptide) (Dynamitin) (DCTN-50) [H.sapiens]
1063 1064		Al072144 Al072183	y,z,ee,ff		ESTs
1064	0240	AI072183 AI072197	p,q		ESTS
1065		A1072197 A1072520	n,o aa,bb		EST
1067		Al072594	ii	,	ESTs
1068	6548	Al072658	a,t,kk,il	<del></del>	EST ESTs
1069		AI072030	r F		EST
1070			d		ESTs
1071			h,l,w,x		ESTs
لنتنب			****		120.0

TABLE 1	1.11	y :			Atty. Ref. 44921-5090-01-WO/2105485
•		GenBank Acc.		(2) 自己的原理 (2) (2)	
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1072	9408	AI072835	cc,dd		ESTs
					ESTs, Moderately similar to S69000 laminin gamma
1073		Al072841	b		2 chain - mouse [M.musculus]
1074	10930	Al072900	С		EST
1075		Al072992	11		ESTs
1076	9611	Al073040	а		ESTs
					ESTs, Highly similar to BANP homolog; putative
					transcription factor; Btg3 associated nulcear protein
1077		Al073109	18		[Mus musculus] [M.musculus]
1078	_	AI073135	cc,dd		ESTs
1079		Al073207	n,o		ESTs
1080		Al073212	g,j,k		ESTs
1081	19371	Al100841	cc,dd		ESTs
					ESTs, Highly similar to SMRT2 metallothionein II -
1082		Al101099	j,k	1	rat [R.norvegicus]
1083	7868	Al101229	jj,kk		ESTs
				HMm:Rho, GDP dissociation	ESTs, Highly similar to 149687 GDP-dissociation
1084		Al101270	aa,bb	inhibitor (GDI) beta	inhibitor - mouse [M.musculus]
1085	4027	Al101330	е		ESTs
1086	11634	AI101338	n,o		ESTs
1087	2292	AI101362	hh		ESTs
1088	18212	Al101494	cc,dd		ESTs
1089	6640	Al101500	е		ESTs
					ESTs, Weakly similar to dual-specificity
1090	22786	AI101659	gg		phosphatase [Mus musculus] [M.musculus]
				Potassium (K+) channel protein	
1091	13267	Al101847	h,i	alpha 5	Potassium (K+) channel protein alpha 5
1092	4432	AI101851	t		ESTs
1093	2042	Al101921	s,t		ESTs
1094	11399		r,jj,kk		ESTs
1095	11598		h,l		ESTs
1096	3085	AJ102046	С		ESTs
1097		Al102061	r		ESTs
1098	10227	Al102248	kk		ESTs
					ESTs, Weakly similar to S37583 RING finger
1099	16596	Al102486	ee,ff,kk		protein rfp - mouse (fragment) [M.musculus]
				cytochrome c oxidase, subunit	
1100	11953	Al102505	hh	VIIIa	cytochrome c oxidase, subunit VIIIa
				cytochrome c oxidase, subunit	
1100	11954	Al102505	hh	VIIIa	cytochrome c oxidase, subunit VIIIa
					ESTs, Highly similar to TYRO protein tyrosine
	}				kinase binding protein; killer cell activating receptor
1101	2125	Al102519	n,o,w,x		associated protein [Mus musculus] [M.musculus]
					ESTs, Weakly similar to GABA(A) receptor-
]		l		<b>l</b> .	associated protein like 2; ganglioside expression
1102	5969	Al102520	b,I,m,bb,kk		factor 2 [Rattus norvegicus] [R.norvegicus]
					ESTs, Highly similar to CBX2_MOUSE Chromobox
		Ì			protein homolog 2 (Modifier 3 protein) (M33)
1103			99		[M.musculus]
1104	11563		b,e,I,m		ESTs
					ESTs, Highly similar to I49523 tumor necrosis factor
1105			е		alpha-induced protein 2 - mouse [M.musculus]
1106	19011	Al102618	p,q		ESTs
					ESTs, Highly similar to RIKEN cDNA 0610010112
1107	19379	Al102711	w,x		[Mus musculus] [M.musculus]
					ESTs, Moderately similar to JC4965 elk1 protein -
1108			w,x		mouse [M.musculus]
1109	5891	Al102745	cc,dd		ESTs
					<u> </u>

TABLE 1	·.	:			Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	HOLE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE
1110		Al102812	1000	Known Gene Name	Unigene Sequence Cluster Title
1111		AI102812 AI102819	C		ESTs
1112		Al102819	e aa,bb		ESTs
1113		Al102030	r aa,uu	<del></del>	ESTs ESTs
1114		Al103059	j,k		
1115		Al103071	s,t,ii		ESTs
	012	1103071	3,1,11	<del></del>	ESTs ESTs, Moderately similar to selective hybridizing
1116	2316	Ai103084	hh		close (Mus musculus) (M. musculus)
1117		AI103106	r .	-	clone [Mus musculus] [M.musculus] ESTs
1118		Al103357	cc,dd		ESTS
	11042	71103337	100,00		ESTs, Highly similar to phosphatidylinositol 3-
				1	
1119	11721	AI103391	ee,ff		kinase, regulatory subunit, polypeptide [Rattus
	11121	71100001	lee,ii	Rattus norvegicus	norvegicus] [R.norvegicus]
		1	1	mitochondrial genome.	
7	14980	AI103396	1,m	9/22Length = 16,3	Pottus
	14000	74100000	14,111	Rattus norvegicus	Rattus norvegicus CDK110 mRNA
		1		mitochondrial genome.	
7	1/1081	Al103396	e	9/22Length = 16,3	Dellar - CDIMAG BULL
	14301	A1100000	-	polypyrimidine tract binding	Rattus norvegicus CDK110 mRNA
1120	3905	Al103403	3	protein	mahanadada tarat bir di sa a st
	0,000	71100400	а	protein	polypyrimidine tract binding protein
1121	15841	Al103465	1.		ESTs, Moderately similar to RP29_HUMAN
1121	13041	A1100400	<u> </u>		Ribonuclease P protein subunit p29 [H.sapiens]
1122	4873	AI103531	l,m,ee,ff		ESTs, Highly similar to toll-associated serine
1122		A1103031	1,111,00,11		protease [Mus musculus] [M.musculus] ESTs, Moderately similar to T24634 hypothetical
- 1					
1123	7528	Al103548	r		protein T07C4.10b - Caenorhabditis elegans
1124		Al103572	0.0		[C.elegans]
1125		Al103738	p,q h,l		ESTs ESTs
1120	10072	A1100730	11,1		
1126	17762	Al103854	С	1	ESTs, Highly similar to S37488 gene T10 protein -
1120	17702	A1103034	<u> </u>		mouse [M.musculus] ESTs, Weakly similar to FKB1_RAT FK506-
1					BINDING PROTEIN (FKBP-12) (PEPTIDYL-
. 1					PROLYL CIS-TRANS ISOMERASE) (PPIASE)
					(ROTAMASE) (IMMUNOPHILIN FKBP12)
1127	4402	Al103874	r ·		
1128		Al103962	dd		[R.norvegicus] ESTs
-1120	- 11010	74100302	uu	unknown Glu-Pro dipeptide	ESIS
1129	16136	Al103983	p,q	repeat protein	tunknown Clu Pro dinantida sanastt-i-
1130			f,g	repeat protein	unknown Glu-Pro dipeptide repeat protein
- 1100	20210	707113	<u>,,a</u>		Rattus norvegicus LIM-domain protein LMP-1
1131	21927	AI104117	w,x		,
1132		Al104117			mRNA, complete cds
1133			gg n,o		ESTs
1134		Al104278	y,z	<u> </u>	ESTS
1135			y,∠ d		ESTS
1136			d		ESTs
1130	2000	A1104343	u		ESTs
1137	18831	Al104357	bb		ESTs, Highly similar to ACTB_HUMAN Actin,
- 1101	10001	71104001	UU	Cytochrome c oxidase subunit	cytoplasmic 1 (Beta-actin) [R.norvegicus]
1138	2357/	Al104520	hh	Via (liver)	Cutada a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta a susta
	20014	11104020	4111	via (livel)	Cytochrome c oxidase subunit VIa (liver)
.	1				ESTs, Weakly similar to NADH dehydrogenase
1139	18500	Al104528	hh		(ubiquinone) 1 beta subcomplex, 6 (17kD, B17)
1140		AI104526 AI104570	r r		[Homo sapiens] [H.sapiens]
1141			·		ESTs
1142			jj,kk i k l m		ESTs
1143			j,k,l,m kk		ESTs
(140	14404	A1104040	ΝA	<u>L</u>	ESTs

TABLE 1			<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	01 00 10	GenBank Acc.			
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
1144		AI104907	9	TEMO	TEMO
1145	8273	AI104908	ii		ESTs
					ESTs, Moderately similar to EBNA1 binding protein
1 1			1		2; nucleolar protein p40; homolog of yeast EBNA1-
					binding protein; nuclear FGF3 binding protein;
					EBNA1-binding protein 2 [Homo sapiens]
1146	24375	Al104979	i.k		[H.sapiens]
			<u> </u>		Rattus norvegicus 250 kDa estrous-specific protein
1147	3802	Al105044	99	j	mRNA, partial cds
1148		Al105161	d		ESTs
1149		AI105243	jj,kk		ESTs
			)))/····		ESTs, Highly similar to GCDH_MOUSE Glutaryl-
			1	HHs:glutaryl-Coenzyme A	CoA dehydrogenase, mitochondrial precursor
1150	23596	Al105435	bb	dehydrogenase	(GCD) [M.musculus]
1151		Al105444	d,kk	denydrogenase	ESTs
	.5.07		C,III	multiple inositol polyphosphate	
1152	15201	Al111401	hh	histidine phosphatase 1	multiple inositol polyphosphate histidine
1153		Al111599	j,k,jj,kk	madure prospriatase 1	phosphatase 1
1154		Al111877	j,n,jj,nn	-th-co-rel t- t- t- t- d-d	ESTs
1 104	10405	ATT 10//	<u> </u>	ribosomal protein L14	ribosomal protein L14
				l	ESTs, Weakly similar to FKB5_MOUSE 51 kDa
					FK506-binding protein (FKBP51) (Peptidyl-prolyl cis
1155	2520	Al111960	_ L.I.		trans isomerase) (PPiase) (Rotamase)
1100	2539	A1111900	e,kk		[M.musculus]
4450	40007				ESTs, Highly similar to JC5556 adhalin - mouse
1156		Al112095	hh		[M.musculus]
1157	4143	Al112107	99		ESTs
4450					ESTs, Weakly similar to T46612 multi PDZ domain
1158		Al112291	11		protein 1 - rat [R.norvegicus]
1159		Al112512	h,I		ESTs
1160	12969	Al112969	p,q		ESTs
					ESTs, Highly similar to SAP3_MOUSE Ganglioside
ľ	1				GM2 activator precursor (GM2-AP) (Cerebroside
					sulfate activator protein) (Shingolipid activator
1161	2296	Al112979	W,X		protein 3) (SAP-3) [M.musculus]
	į				ESTs, Weakly similar to vitronectin [Rattus
1162	4969	AI113008	I,k,n,o		norvegicus] [R.norvegicus]
	j				ESTs, Moderately similar to JC4365 arginine-tRNA
1163			0		ligase (EC 6.1.1.19) - human [H.sapiens]
1164			r,kk		ESTs
1165	21019		y,z		ESTs
					Rattus norvegicus mRNA for Castration Induced
1166	10780	AI136555	c		Prostatic Apoptosis Related protein-1 (CIPAR-1)
					ESTs, Highly similar to H33_HUMAN Histone H3.3
1167		AI136747	cc,dd		(H3.A) (H3.B) (H3.3Q) [M.musculus]
1168			e		ESTs
					ESTs, Weakly similar to T34013 hypothetical
1		1	ĺ		protein Y4C6B.5 - Caenorhabditis elegans
1169	13082	N136848	С		[C.elegans]
					ESTs, Highly similar to S14538 transition protein -
1170	13090	N136977	cc,dd	·	mouse [M.musculus]
1171			hh		ESTs
					ESTs, Moderately similar to S21976 probable RNA-
	1	J	1		directed DNA polymerase (EC 2.7.7.49) (clone
.	- 1	1	1	1	
1172	13717	N137131	1,0		MH2C) - rat retrotransposon L1 (fragment)
1173			e,ff		[R.norvegicus]
<del></del>			,"		ESTs
1174	15969	J137302	cc,dd		ESTs, Weakly similar to ZF37_RAT Zinc finger
- 117 71	.5505		,,,,,,		protein 37 (Zfp-37) [R.norvegicus]

TABLE 1		: · [4]	<del></del>		Alty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			APP
SEQ ID	GLGC ID	No. :	Model Code :	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Moderately similar to A55945 endothelial cell
1175	9166	AI137406	kk		protein C receptor precursor - mouse [M.musculus]
					ESTs, Moderately similar to hypothetical protein
1176	11238	Al137410	ee,ff		FLJ12888 [Homo sapiens] [H.sapiens]
			<u> </u>		ESTs, Weakly similar to GPV_RAT Platelet
					glycoprotein V precursor (GPV) (CD42D)
1177	7122	Al137468	99		[R.norvegicus]
					ESTs, Highly similar to H2A1_RAT Histone H2A.1
1178	18943	AI137495	d	<u>.</u>	[R.norvegicus]
		100		Transforming growth factor bet	
1179	17402	AI137553	ee.ff	stimulated clone 22	Transforming growth factor beta stimulated clone 22
1180		Al137579	bb	dimended dione 22	ESTs
1100	0000	A1107070			ESTs, Highly similar to IMB3_HUMAN Importin beta
·					3 subunit (Karyopherin beta-3 subunit) (Ran-binding
1181	7/1/	AI137586	а		protein 5) [H.sapiens]
	7414	A1107300	0		ESTs, Highly similar to MG15_HUMAN
					Transcription factor-like protein MRG15 (MORF-
4400	40054	A1407004			related gene 15 protein) (MSL3-1 protein) (Protein
1182		Al137864	cc,dd		HSPC008/HSPC061) [H.sapiens]
1183		Al137925	hh		ESTs
1184		Al137931	l,m		ESTs
1185	23687	Al137958	9		ESTs
					ESTs, Highly similar to 157019 H3 histone - rat
1186		Al137974	d		[R.norvegicus]
1187		AI137995	С		ESTs
1188		AI138093	g		ESTs
1189		Al144948	r	·	ESTs
1190		AI145058	99		ESTs
1191		AI145095	kk		ESTs
1192	13786	Al145106	hh		ESTs
					ESTs, Weakly similar to NUCL_RAT Nucleolin
1193		Al145282	a,jj,kk		(Protein C23) [R.norvegicus]
1194	5732	AI145362	11		ESTs
1195	13375	Al145454	cc,dd	-	ESTs
1196	11331	Al145556	t		ESTs
1197	23631	AI145650	j,k		ESTs
			,		ESTs, Weakly similar to T21659 hypothetical
					protein F32D8.4 - Caenorhabditis elegans
1198	8339	Al145761	w,x		[C.elegans]
1199	5531	Al145859	t		ESTs
					ESTs, Highly similar to RB6K_MOUSE Rabkinesin-
			l		6 (RAB6-interacting kinesin-like protein) (Kinesin-
1200	11337	AI145968	l,m		like protein 174) [M.musculus]
	11001	7.11 10000	7,111		inte proteir 174) [withdoodido]
1			ļ		ESTs, Highly similar to T46266 hypothetical protein
1201	113/6	A1145991	jj,kk		DKFZp761A179.1 - human (fragment) [H.sapiens]
1201	11040	71170001	III-WK		ESTs, Moderately similar to 2206377B MHR23B
1202	11262	A)145007	bb		
1202	11303	Al145997	hh		gene [Mus musculus] [M.musculus] ESTs, Weakly similar to Yeast hypothetical 52.9
			]		
4000	10470	A1460075	l. _L .		KD protein like [Caenorhabditis elegans]
1203	184/2	Al168975	j,k		[C.elegans]
			1	,	ESTs, Weakly similar to Yeast hypothetical 52.9
4000	40.470		l., ,, ,,		KD protein like [Caenorhabditis elegans]
1203	18473	AI168975	j,k,kk,ii		[C.elegans]
			ĺ		ESTs, Highly similar to A26774 platelet factor 4
1204	21523	Al169104	le	<u> </u>	precursor - rat (R.norvegicus)

TABLE 1	۱ .: · <u>:</u>				Atty. Ref. 44921-5090-01-WO/2105485
050 10	01 00 10	GenBank Acc.			Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie
SECLID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1					ESTs, Moderately similar to VATE_MOUSE
			1		Vacuolar ATP synthase subunit E (V-ATPase E
1205	47044	A14004E0	ļ	HMm:ATPase, H+ transporting,	subunit) (Vacuolar proton pump E subunit) (V-
1205	1/914	AI169159	hh	lysosomal 31kDa, V1 subunit E	ATPase 31 kDa subunit) (P31) [M.musculus]
1206	22452	A1160170	_	HHs:eukaryotic translation	ESTs, Highly similar to S00985 translation initiation
1200	23132	AI169170	<u> </u>	initiation factor 4A, isoform 2	factor elF-4A II - mouse [M.musculus]
1207	12979	AI169177	20047	1	ESTs, Highly similar to S33363 gly96 protein -
1207	12010	74103177	a,p,q,y,z		mouse [M.musculus] ESTs, Highly similar to A47318 RNA-binding protein
1208	2607	AI169211	l _r		Raly - mouse [M.musculus]
			<del> </del>	ATPase, H+ transporting,	Traiy - mouse [w.musculus]
				lysosomal (vacuolar proton	ATPase, H+ transporting, lysosomal (vacuolar
1209	22661	AI169265	99	pump), subunit 1	proton pump), subunit 1
1210		Al169272	cc,dd	Penipy, cosum 1	ESTs
1211		Al169311	j,k		ESTs
1212	14525	AI169512	d		ESTs
					ESTs, Highly similar to S57447 HPBRII-7 protein -
1213	11550	AI169591	r		human [H.sapiens]
1214	4480	Al169601	hh		ESTs
				vesicle-associated membrane	
				protein, associated protein A (33	vesicle-associated membrane protein, associated
1215	6888	Al169615	s,t	kDa)	protein A (33 kDa)
					ESTs, Highly similar to chromosome 11
	•				hypothetical protein ORF3 [Homo sapiens]
1216	23110	AI169640	t		[H.sapiens]
4047			<u> </u>		ESTs, Weakly similar to ATP-binding cassette, sub-
1217	24146	Al169668	ii		family F, member 2 [Homo sapiens] [H.sapiens]
4040	04.000	41400754			Rattus norvegicus interferon-inducible protein
1218	21000	AI169751	a,kk		variant 10 mRNA, complete cds
1219	904	A1460766		·	ESTs, Highly similar to G33_RAT GENE 33
1219		AI169756 AI169993	j,k,p,q aa,bb		POLYPEPTIDE [R.norvegicus]
1221		Al170056	aa,00		ESTs ESTs
1222		Al170059	d		ESTs
1222	21204	A1170033	u .		ESTs, Moderately similar to g1-related zinc finger
1223	6969	Al170244	hh		protein [Mus musculus] [M.musculus]
1224		Al170251	aa,bb		ESTs
			-3,00		ESTs, Weakly similar to S54303 zinc transport
1225	3547	AI170279	ii		protein ZnT-1 - rat [R.norvegicus]
1226		11/20010	gg		ESTs (Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the Carrier of the
1227			e,j,k,t,ee,ff		ESTs
1228			a,p,q,y,z		ESTs
1229			cc,dd		ESTs
1230	16916	AI170406	h,l		ESTs
1231			d,kk		ESTs
		-			ESTs, Weakly similar to A35362 UDPglucose-
	į	l			glycogen glucosyltransferase (EC 2.4.1.11), hepatic
1232		Al170502		brain	- rat [R.norvegicus]
1233			ii		ESTs
1234			cc,dd		ESTs
1235	2534	Al170632	aa,bb,ii		ESTs
4000	45000	41470000	•		ESTs, Weakly similar to A48085 transcription factor
1236					ADD1 - rat [R.norvegicus]
1237			ee,ff		ESTs
1238	39/3	Al170687	hh		ESTs
4000	cooc	A1470700	I		ESTs, Weakly similar to DCC_MOUSE Tumor
1239	0982	Al170793	kk		suppressor protein DCC precursor [M.musculus]

TABLE 1	<del></del>	·	<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		1	7/kly-1 (c): 44321-3030-01-WO/2103463
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			_		ESTs, Weakly similar to A57291 cytokine inducible
1240	21284	Al170842	hh		nuclear protein C193 - human [H.sapiens]
					ESTs, Moderately similar to A57641 G protein-
1241		Al170948	q	1	coupled receptor 4 - human [H.sapiens]
1242		AI171019	aa,bb		ESTs
1243	13702	Al171064	n,o		ESTs
1244	22033	Al171165	aa,bb		ESTs
1 1					ESTs, Weakly similar to 2118320A
				I	neurodegeneration-associated protein 1 [Rattus
1245		AI171206	ee,ff		norvegicus] [R.norvegicus]
1246	21771	AI171209	n,o		ESTs
				amino acid transporter system	
1247	5953	Al171231	s,t	A2	amino acid transporter system A2
					ESTs, Highly similar to S38342 fibrillarin - mouse
1248	22432	AI171263	a,z		[M.musculus]
					· · · · · · · · · · · · · · · · · · ·
1					ESTs, Moderately similar to PTN3_HUMAN Protein
					tyrosine phosphatase, non-receptor type 3 (Protein-
1249	11426	Al171305	a,jj,kk		tyrosine phosphatase H1) (PTP-H1) [H.sapiens]
					y come prospirated triy (i ii triy [i ii apicing]
1 1					ESTs, Highly similar to SWI/SNF related, matrix
1		İ			associated, actin dependent regulator of chromatin,
				guanine nucleotide binding	subfamily b, member 1; integrase interactor 1 [Mus
1 1	ł			protein (G protein), beta	musculus] [M.musculus], guanine nucleotide
1250	14960	Al171319	w,x ·	polypeptide 2-like 1	binding protein (G protein), beta polypeptide 2-like 1
1251			e,p,q	F - 1) F - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ESTs
			- 11.7.6		ESTs, Weakly similar to DnaJ-like protein [Rattus
1252	18047	AI171359	bb		norvegicus] [R.norvegicus]
					ESTs, Weakly similar to S37583 RING finger
1253	16599	Al171366	ee,ff,jj,kk		protein rfp - mouse (fragment) [M.musculus]
					ESTs, Moderately similar to MEA6_HUMAN
		1			Meningiorna-expressed antigen 6/11 (MEA6)
1254	22958	Al171374	p,q,t		(MEA11) [H.sapiens]
					(Mills (11) [1.5dptch5]
1		1			ESTs, Weakly similar to HCD2_RAT 3-hydroxyacyl-
	1	j			CoA dehydrogenase type II (Type II HADH)
					(Endoplasmic reticulum-associated amyloid beta-
1255	17529	A1171460	h,i		peptide binding protein) [R.norvegicus]
1256	13453		-		ESTs
1257	17220	Al171521	c		ESTs
1258			t l		ESTs
1259		AI171607			ESTs
1260		AI171646	<b>9</b> g		ESTs
1261	2795		9		ESTs
					ESTs, Weakly similar to TMOD_MOUSE
1262			j,kk	-	Tropomodulin [M.musculus]
1263	15449	Al171799 j	j,kk		ESTs ESTs
1264	4420	N171916 a	a,z		ESTs
1265	24220	\l171978 r			ESTs
. 1					ESTs, Moderately similar to I48672 p8 MTCP-1 -
1266		Ai171982	. !	İ	mouse [M.musculus]
1267	6645 A	N171998	,kk		ESTs
		l"			ESTs, Highly similar to A29440 signal recognition
1268			1,0		particle receptor - human [H.sapiens]
1269		1.222	,q,gg		ESTs
1270					heat shock transcription factor 1
1271			19		ESTs
			×		2010

TABLE 1	. /		· 2.		Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc. No:		Known Gene Name	
024.0	OLOGO ID	110.	Woder odde.	Triown Celle Hame	
					ESTs, Weakly similar to RTN1_RAT Reticulon 1
1272	16202	A1170100	<u> </u>		(Neuroendocrine-specific protein) (S-rex)
1273		AI172183	C		[R.norvegicus]
		AI172263	d,r		ESTs
1274		AI172265	cc,dd		ESTs
1275	23313	AI172271	r		ESTs
4070		1			ESTs, Weakly similar to A53004 transcription
1276		AI172272	hh		elongation factor S-II - rat [R.norvegicus]
1277		Al172281	9		ESTs
1278	1287	AI172299	kk		ESTs
			1		
			İ	HMm:interleukin 2 receptor,	ESTs, Highly similar to 149280 interleukin-2 receptor
1279		AI172304	e	gamma chain	gamma chain precursor - mouse [M.musculus]
1280		Al172305	е		ESTs
1281	13266	Al172326	j,k,ii		ESTs
1282	23390	AI172328	е	RNA binding protein p45AUF1	RNA binding protein p45AUF1
1283	12117	Al172352	hh,jj,kk		ESTs
1284		Al172423	a,h,l,o,hh		ESTs
	·				ESTs, Weakly similar to HCCA2 protein [Homo
1285	2208	Al172472	cc,dd		sapiens] [H.sapiens]
					ESTs, Weakly similar to A54756 isocitrate
				<u> </u>	dehydrogenase (NADP+) (EC 1.1.1.42), cytosolic -
1286	17291	Al172491	gg		rat [R.norvegicus]
1287		Al172567	ii		ESTs
1288			h,l		EST
1289		AI172598	jj,kk		ESTs
1290		Al175005	r r		ESTs
1200	11110	7(17:0000	1		E918
					ESTs Moderately similar to COE4 DAT COEI IN
1291	7740	AI175011	r,hh		ESTs, Moderately similar to COF1_RAT COFILIN,
201		74170011	1,1111		NON-MUSCLE ISOFORM [R.norvegicus] ESTs, Moderately similar to WS3_HUMAN WS-3
1292	17679	Al175025	hh		
1293			p,q		PROTEIN [H.sapiens]
1200	- 0000		j,k,p,q,ee,ff,jj,k	-	ESTs
1294	2331	Al175045	րությգլացույյյու Խ		FCT-
1295			h,l,kk,ll		ESTs
1233	3302	A1173100	11,1,555,11	Guanidinoacetate	ESTs
1296	10118	AI175281	hh	T .	
1230	13110	A1173201	1111	methyltransferase	Guanidinoacetate methyltransferase
1207	21250	A1475220			ESTs, Weakly similar to S08464 T-cell alloantigen
1297	2112		n,o		RT6.1 - rat [R.norvegicus]
1298			jj,kk		ESTs
1299	13460	Al175375	a,y,z,ee,ff,kk		ESTs
, 1					ESTs, Weakly similar to RASH_RAT
4000	ا				TRANSFORMING PROTEIN P21/H-RAS-1 (C-H-
1300		AI175466	<u>r</u>		RAS) [R.norvegicus]
1301	13353	AI175508	j,k		ESTs
					ESTs, Highly similar to EF1B_MOUSE Elongation
1302		AI175551	h,I,w,x,kk		factor 1-beta (EF-1-beta) [M.musculus]
1303	9979	Al175594	ii		ESTs
- 1	- 1	1			ESTs, Weakly similar to A53237 I(3)S12 protein -
				İ	fruit fly (Drosophila melanogaster) (fragment)
1304			<u> </u>		[D.melanogaster]
1305	15984	AI175777	j,k		ESTs
T	T				Rattus norvegicus Sprague-Dawley lipid-binding
1306	19004	AI175875	aa,bb		protein mRNA, complete cds
					Raltus norvegicus Sprague-Dawley lipid-binding
1306	19005	Al175875 i	ii ·		protein mRNA, complete cds
1307		Al175977	r		ESTs
1308			a,x		ESTs
		!		<del></del>	

TABLE 1		1.5	1		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
]			I		ESTs, Highly similar to beta-catenin-interacting
1309		Al175992	ļr		protein ICAT [Mus musculus] [M.musculus]
1310	2046	Al176004	f,g		ESTs
	00044				ESTs, Highly similar to PM5P_HUMAN Protein pM5
1311		AI176007	y,z		precursor [H.sapiens]
1312	12298	AI176055	aa,bb		ESTs
[ ]				(1) American makes of the order of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contrac	ESTs, ESTs, Highly similar to S15892 pyruvate
4242	5070	A1470447		HMm:pyruvate dehydrogenase	dehydrogenase (lipoamide) (EC 1.2.4.1) beta chain-
1313		Al176117 Al176121	hh	(lipoamide) beta	rat [R.norvegicus] ESTs
1314			f,g		ESTs ESTs
1315	0000	Al176130	d,jj,kk		ESTs, Highly similar to testis expressed gene 189
1316	17000	AI176140	_		[Mus musculus] [M.musculus]
1317		Al176160	n,o		ESTs
1317	10001	A1170100	11,0		LOIS
1318	6782	AI176170	e	FK506-binding protein 1 (12kD)	FK506-binding protein 1 (12kD)
1310	0/02	AIIIOIIO	-	FBJ murine osteosarcoma viral	FBJ murine osteosarcoma viral (v-fos) oncogene
1319	10182	Al176185	0.00	(v-fos) oncogene homolog	homolog
1320		AI176265	p,q,gg j,k,p,q,kk	(V-103) Oncogene Homolog	ESTs
1320	22/00	A1170203	ויייליעיע		ESTs, Highly similar to UAP1_HUMAN UDP-N-
					acetylhexosamine pyrophosphorylase (Antigen X)
	·				(AGX) (Sperm-associated antigen 2) [Includes: UDP
					N-acetylgalactosamine pyrophosphorylase (AGX-1);
					UDP-N-acetylglucosamine pyrophosphorylase
1321	12999	Al176276	h,l,p,q,y,z,gg		(AGX-2)] [H.sapiens]
1021	12000	ATTOLIO	11,110,417,2199		ESTs, Highly similar to B Chain B, Crystal Structure
					Of The D1d2 Sub-Complex From The Human Snrnp
1322	16438	AI176294	cc,dd		Core Domain [H.sapiens]
1022	10.00	11110201	00,00		ESTs, Weakly similar to CO1B_RAT Coronin 1B
1323	13339	AI176308	s,t		(Coronin 2) [R.norvegicus]
1324		AI176331	l,m		ESTs
			1		ESTs, Weakly similar to YQT3_CAEEL
					HYPOTHETICAL 42.0 KD PROTEIN F25B5.3 IN
1325	13504	AI176354	99		CHROMOSOME III [C.elegans]
1326		Al176362	a,y,z,bb,kk,li		ESTs
					Rattus norvegicus Sprague-Dawley lipid-binding
1327	19006	Ai176393	aa,bb,ll		protein mRNA, complete cds
					ESTs, Highly similar to S41115 probable
			1		flavoprotein-ubiquinone oxidoreductase (EC 1.6.5)
1328	17920	Al176422	11		- human [H.sapiens]
1329	24314	AI176434	hh		ESTs
			h,l,j,k,y,z,ee,ff,		ESTs, Highly similar to SMRT2 metallothionein II -
1330		AI176456	kk		rat [R.norvegicus]
1331	24763	Al176488	jj,kk	nuclear factor I/B	nuclear factor I/B
		i			ESTs, Highly similar to NIDO_RAT NIDOGEN
1332		AI176500	f,g		(ENTACTIN) [R.norvegicus]
1333		Al176505	hh		ESTs
1334	15959	AI176540	d,r		ESTs
1	1		1.	HMm:heat shock protein, 86	ESTs, Moderately similar to HS9B_RAT Heat shock
1335	16518	AI176546	d,ee,ff,jj,kk	kDa 1	protein HSP 90-beta (HSP 84) [R.norvegicus]
		1			Rattus norvegicus insulin-like growth factor binding
1336	5507	AI176584			protein 5 mRNA, 3' UTR
1	1	1			ESTs, Weakly similar to tumor protein p53-binding
					protein; topoisomerase I binding protein [Homo
1337		AI176588	j,k		sapiens] [H.sapiens]
1338		AI176792	d		ESTs
1339		AI176810	e,j,k,kk		ESTs
1340	0621	Al176841	ļii	1	ESTs

TABLE 1			1. 1.7,	1. 4.0	Atty: Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	,	The readily of the late.	W. C. C. C. C. C. C. C. C. C. C. C. C. C.
SEQ ID	GLGC ID	No:	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1341	16917	AI176951	h,l		ESTs
				ribosomal protein, mitochondrial	
1342	10310	Al176961	n,o	L12	ribosomal protein, mitochondrial, L12
					Proton, mitodionana, E12
1				Cbp/p300-interacting	
			p,q,r,bb,ee,ff,ij,	transactivator, with Glu/Asp-rich	Cbp/p300-interacting transactivator, with Glu/Asp-
1343	16124	AI176963	kk	carboxy-terminal domain, 2	rich carboxy-terminal domain, 2
					ESTs, Moderately similar to T13963 formin related
1344	7292	Al176995	С		protein, lymphocyte specific - mouse [M.musculus]
1345	16493	AI177049	d		ESTs
1346			ii		ESTs
1347		Al177059	c,g,kk		ESTs
1348	22077	AI177099	hh		ESTs
					ESTs, Weakly similar to OAF_DROME Out at first
1		i			protein [Contains: Out at first short protein]
1349	5943	AI177105	j,k		[D.melanogaster]
					ESTs, Weakly similar to S49158 complement
					protein C1q beta chain precursor - rat
1350			kk		[R.norvegicus]
1351			С		ESTs
1352	7163	Al177256	h,I		ESTs
1					ESTs, Weakly similar to GMCR_MOUSE
	İ				Granulocyte-macrophage colony-stimulating factor
					receptor alpha chain precursor (GM-CSF-R-alpha)
1353			w,x		(GMR) [M.musculus]
1354			a		ESTs
1355		Al177357	r		
1356	14989	Al177366	f,g,l,m,kk	Integrin, beta 1	Integrin, beta 1
		l	•		ESTs, Weakly similar to KLR6_MOUSE Killer cell
105	4-000				lectin-like receptor 6 (T-cell surface glycoprotein LY-
1357	17826	Al177403	w,x		49F) (LY49-F antigen) [M.musculus]
	-	1	į		
4050	0.400				ESTs, Highly similar to T08750 hypothetical protein
1358	24129	A1177590	b	<u> </u>	DKFZp586E1519.1 - human (fragment) [H.sapiens]
4250	47570	41477000			
1359			n,o,hh		Rattus norvegicus mRNA for hnRNP protein, partial
1360			o,u,v		ESTs
1361	0002	Al177734			ESTs
					ESTs, Weakly similar to T20254 hypothetical
1262	6224	A1477700			protein C55A6.1 - Caenorhabditis elegans
1362	0334	41177765 I	P		[C.elegans]
			j	,	ESTs, Moderately similar to acid sphingomyelinase-
1363	22002	A1177804 a	bb		like phosphodiesterase 3a [Mus musculus]
1303	220021	11111004	aa,bb		[M.musculus]
1364	11701	AI177843	an bh		ESTs, Highly similar to SAS_HUMAN Sarcoma
1304	11/31/	411/1043	aa,bb		amplified sequence [H.sapiens]
		1			ESTs, Highly similar to CDK1_MOUSE Cyclin-
		1	Į.		dependent kinase 2-associated protein 1 (CDK2-
			i		associated protein 1) (Putative oral cancer
1365	547	Al177871 c	1g		suppressor) (Deleted in oral cancer-1) (DOC-1)
1366					[M.musculus]
	.55,07		·,·		calpactin I heavy chain ESTs, Moderately similar to S23251 protein-tyrosine
İ	1				kinase (EC 2.7.1.112) ark precursor - mouse
1367	5929	N177962 h	ıh		M.musculusi
			<del>"</del>		[M.muscurus] ESTs, Weakly similar to transforming growth factor-
	l	ļ			beta (TGF-beta) masking protein large subunit
1368	22691	N177967 r	,aa,bb		Rattus norvegicus] [R.norvegicus]
			,,-		rvarius norvegicus] [rv.norvegicus]

TABLE '	1	:	v 37. (4		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	34 344	Programme of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	7 mg ( 1 mg ) 1 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2 mg ( 1 mg ) 2
SEQID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Highly similar to TGIF_MOUSE 5'-TG-3'
1	ĺ				INTERACTING FACTOR (HOMEOBOX PROTEIN
1369		AI178025	p,q,kk		TGIF) [M.musculus]
1370		Al178069	kk		ESTs
1371		Al178214	hh		ESTs
1372	23929	AI178222	ii		ESTs
		_			ESTs, Moderately similar to T13963 formin related
1373	6059	AI178245	С	<u>l</u>	protein, lymphocyte specific - mouse [M.musculus]
	1				ESTs, Weakly similar to S51973 hypothetical
1	ļ	l			protein YAL046c - yeast (Saccharomyces
1374		AI178272	hh	<u>l</u>	cerevisiae) [S.cerevisiae]
1375	3740	Al178277	d		ESTs
					ESTs, Highly similar to SYFB_MOUSE
					Phenylalanyl-tRNA synthetase beta chain
				HMm:phenylalanine-tRNA	(PhenylalaninetRNA ligase beta chain) (PheRS)
1376	6502	AI178283	r	synthetase-like	[M.musculus]
1377	5760	AI178361	п,о		ESTs
1378	2479	AI178384	hh		ESTs
1379	8445	AI178394	С		ESTs
1380	22197	AI178527	a,y,z		ESTs
1381	21311	AI178688	s,t		ESTs
1382	14530	Al178738	b		ESTs
					ESTs, Highly similar to A56418 transcription factor
1383	15091	Al178740	cc,dd	1	delta - mouse [M.musculus]
1384			p,q,y,z		ESTs
1385	16668		ii	sialyltransferase 5	sialyltransferase 5
				eukaryotic translation initiation	Starythansorase o
1386	18848	AI178816	n,o	factor 4E	eukaryotic translation initiation factor 4E
			— <del>'</del> -		ESTs, Weakly similar to T23419 hypothetical
					protein K07F5.14 - Caenorhabditis elegans
1387	13592	Al178914	ii		[C.elegans]
					ESTs, Weakly similar to S70642 ubiquitin tigase
1388	23043	Al178968	b		Nedd4 - rat (fragment) [R.norvegicus]
1389	18907	Al178971	C,V	Hemoglobin, alpha 1	Hemoglobin, alpha 1
					ESTs, Highly similar to B Chain B, Three-
	1				Dimensional Structure Of Human Electron Transfer
1390	17358	Al179147	g	٠	Flavoprotein To 2.1 A Resolution [H.sapiens]
				Rattus norvegicus	
	1			mitochondrial genome.	
8	14983	Al179150	bb,cc,dd	9/22Length = 16,3	Rattus norvegicus CDK110 mRNA
1391	8477		j,k,y,z		ESTs
1392			ii		ESTs
1393			kk		ESTs
1394	7213	Al179356	w,x	plysia ras-related homolog A2	plysia ras-related homolog A2
1395			ee,ff		ESTs
					ESTs, Highly similar to open reading frame 12 [Mus
1396	12011	AI179380	c		musculus] [M.musculus]
					ESTs, Highly similar to RIKEN cDNA 0610040D20
1397	19783	AI179388	f.g		[Mus musculus] [M.musculus]
1398			e,t,kk		ESTs
1399			e,g	collagen type V, alpha 2	collagen type V, alpha 2
1400			a,j,k	· g-·· · · · · · · · · · · · · · · ·	ESTs
1401			,k		ESTs
			a,p,q,r,y,z,gg,k	· · · · · · · · · · · · · · · · · · ·	
1402	16081			Heme oxygenase	Heme oxygenase
				oxygonado	ESTs, Weakly similar to AGRT agrin - rat
1403	3094	Al179700 I	o,l,m		[R.norvegicus]
1404			i	<del></del>	ESTs ESTS
					LOTO

TABLE 1	1 4.	18 1			Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
					ESTs, Highly similar to HSPC038 protein [Homo
1405		AI179916	b,I,m		sapiens] [H.sapiens]
1406	1686	Al179971	С	Hemoglobin, alpha 1	Hemoglobin, alpha 1
1406	1687	Al179971	b,c,v	Hemoglobin, alpha 1	Hemoglobin, alpha 1
					ESTs, Weakly similar to CPI3_RAT CONTRAPSIN-
]			İ		LIKE PROTEASE INHIBITOR 3 PRECURSOR (CPI-
	İ				23) (SERINE PROTEASE INHIBITOR 1) (SPI-1)
1407	6455	Al179984	aa,bb		[R.norvegicus]
1408	15892	Al179988	j,k,kk		ESTs
1409	4189	AI180081	cc,dd		ESTs
					ESTs, Weakly similar to OZF_RAT Zinc finger
1410	19828	AI180087	d		protein OZF (POZF-1) [R.norvegicus]
1411		AI180239	kk		ESTs
1412		Al180252	e,r		ESTs .
			1-7:		ESTs, Moderately similar to JC4978 oxidative
1413	17089	Al180281	b,l,m		stress protein A170 - mouse [M.musculus]
1414		AI180334	b,u,v		ESTs
<del>                                     </del>	0002	7.1.5000	15/4,0		
1					ESTs, Weakly similar to LYOX_RAT Protein-lysine
1415	8180	AI180353	hh		6-oxidase precursor (Lysyl oxidase) [R.norvegicus]
1413	0100	A1100000	*****		ESTs, Weakly similar to T14106 probable GTPase-
1416	1/1337	AI180414	b,c,l,m		activating protein SPA-1 - rat [R.norvegicus]
1417	7117	A1227612	11		ESTs
1417		Al227639	10		ESTs
1419		AI227715	a,ee,ff	Retinoblastoma-related gene	Retinoblastoma-related gene
1419		Al227724	l,s,t,li	Netinobiastoriia-relateu gene	ESTs
		Al227751	ii		ESTs
1421	2055	AIZZITƏT	<del> </del>		ESTs, Highly similar to S26650 DNA-binding protein
4400	42072	A1007700			
1422		AI227763	gg	I all division and 40	5 - human [H.sapiens] cell division cycle 42
1423		A1227887	e,aa,bb	cell division cycle 42	EST
1424		AI227961	c,ii		ESTs
1425		AI228147	99		
1426		Al228284	j,k		ESTs
1427	12946	Al228291	a,ee,ff,kk,ll		ESTS
	00045	. 1000000	1		ESTs, Highly similar to craniofacial development
1428		Al228299	bb		protein 1 [Mus musculus] [M.musculus]
1429		Al228301	ee,ff,jj,kk		ESTs
1430		Al228335	ee,ff		ESTs
1431		AI228438	b,v		ESTs
1432	13741	AI228462	cc,dd		ESTs
1 .	_			1	ESTs, Highly similar to S10A_RAT S-100 protein,
1433	3 1473	Al228548	aa		alpha chain [R.norvegicus]
	1				ESTs, Weakly similar to T16757 hypothetical
	1	1		1	protein R144.3 - Caenorhabditis elegans
1434		Al228596	a,p,q,y,z,ee,ff		[C.elegans]
1435		Al228672	99		ESTs
1436	3 13270	AI228760	<u> t</u>		ESTS
			1	stearoyl-Coenzyme A	Rat DNA polymerase alpha mRNA, 3' end, stearoyl-
1437	/ 15078	AI228830	j,k	desaturase 2	Coenzyme A desaturase 2
		1		1	ESTs, Weakly similar to T26088 hypothetical
			]		protein W02B12.7 - Caenorhabditis elegans
1438	3 2210	AI228963	hh		[C.elegans]
		1		Synaptobrevin 1, Vesicle-	
1	1	1		associated membrane protein	Synaptobrevin 1, Vesicle-associated membrane
1439	3 16203	Al229196	w,x,cc,dd	(synaptobrevin 2)	protein (synaptobrevin 2)
1440	13826	AI229304	h,l,hh,jj,kk		ESTs
1441		Al229354	h,l		ESTs
				<del> </del>	
1442	2 23435	AI229502	n,o		ESTs

TABLE 1		100		2	Atty. Ref: 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			inodor cipaci.	- Idiowi Cene Name	Rattus norvegicus mRNA for class I beta-tubulin,
1444	13977	Al229707	r		complete cds
1445		AI229753	p,q,t,y,z,ee,ff	ADP-ribosylation factor 2	ADP-ribosylation factor 2
			1.1.1.1.1		ESTs, Highly similar to 2202300B
				i	keratin:ISOTYPE=K19 [Rattus norvegicus]
1446	24117	AI229785	cc,dd		[R.norvegicus]
1447	2936	AI229843	kk		ESTs
1448	21446	AI229854	hh		ESTs
1449	13886	Al230116	99		ESTs
				ectonucleoside triphosphate	
1450	23042	AI230130	s,t,ii	diphosphohydrolase 2	ectonucleoside triphosphate diphosphohydrolase
					ESTs, Weakly similar to KUCR_RAT Kupffer cell
1451		Al230142	w,x		receptor [R.norvegicus]
1452		Al230156	b		ESTs
1453		Al230284	С		ESTS
1454	2372	Al230373	j,k		ESTs
1455	6217	Al230381	p,q		ESTS
1456	23937	Al230430	ii		ESTs
1457	6560	AI230440	t		ESTs
1458		AI230460	С	MARCKS-like protein	MARCKS-like protein
1459	19944	Al230479	b		ESTs ESTs
1460		Al230578	s,t,ii		ESTs
					ESTs, Weakly similar to TES1_RAT TESTIN 1/2
1461	22484	Al230591	lu .		PRECURSOR (CMB-22/CMB-23) [R.norvegicus]
					ESTs, Moderately similar to RL34_RAT 60S
1462	9412	AI230691	f,g	1	RIBOSOMAL PROTEIN L34 [R.norvegicus]
1463	18529	AI230716	a,ll		ESTs EST (C. INC. 1997)
1464	23013	AI230743	hh	actin-related protein 3	actin-related protein 3
1465	9171	AI230747	b	proton o	ESTs ESTs
					ESTs, Highly similar to BI3_MOUSE Brain protein
1466	22387	AI230753	f,g		13 [M.musculus]
					ESTs, Moderately similar to cargo selection prote
- 1	1				(mannose 6 phosphate receptor binding pr; cargo
					selection protein (mannose 6 phosphate receptor
1467	242/0/	AI230758	n,o		binding protein) [Homo sapiens] [H.sapiens]
	-		:		ESTs, Moderately similar to cyclin-dependent
	1				kinase inhibitor 3; CDK2-associated dual specificit
					phophatase; cyclin-dependent kinase interacting
l				HHs:cyclin-dependent kinase	protein 2; kinase-associated phosphatase; cyclin-
				inhibitor 3 (CDK2-associated	dependent kinase interactor 1 [Homo sapiens]
1468		N230798	r	dual specificity phosphatase)	[H.sapiens]
1469			n,o		ESTs
1470	7520	A1230830	ü		ESTs
					ESTs, Highly similar to HMBA-inducible [Homo
1471		1230884	r		sapiens] [H.sapiens]
1472			99		ESTs
1473		1230939	aa,bb		ESTs
1474			w,x		ESTs
1475			cc,dd		ESTs
1476			s,t		ESTs
1477		1231044	w,x		ESTs
1478		1231083	t		ESTs
1479	24072 A	1231093	9		ESTs
1					ESTs, Highly similar to R3RT3A ribosomal protein
1480	20845 A	1231140	w,x		L23a, cytosolic [validated] - rat [R.norvegicus]
1					ESTs, Highly similar to S611_HUMAN Protein
			]		transport protein Sec61 alpha subunit isoform 1
1481	0404CIA	1231217	1		(Sec61 alpha-1) [R.norvegicus]

TABLE 1	1 3 3				Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			and the state of the state of the state of
SEQ ID.	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Cystatin C (cysteine proteinase	
1482	24327	Al231292	99	inhibitor)	Cystatin C (cysteine proteinase inhibitor)
				prolyl 4-hydroxylase alpha	
1483		AI231310	ee,ff	subunit	prolyl 4-hydroxylase alpha subunit
1484		Al231421	d,t		ESTs
1485	15572	Al231472	f,g	procollagen, type I, alpha 1	procollagen, type I, alpha 1
					ESTs, Highly similar to Z183_HUMAN Zinc finger
1486	8004	Al231532	r		protein 183 [H.sapiens]
					ESTs, Highly similar to S14538 transition protein -
1487	13092	Al231547	jj,kk		mouse [M.musculus]
					ESTs, Highly similar to MAX_RAT MAX protein
1488		AI231566	s,t		[R.norvegicus]
1489	2422	AI231615	г		ESTs
1490		Al231724	С		ESTs
1491	18402	Al231778	ii		ESTs
1492	6412	Al231787	а		ESTs
					ESTs, Highly similar to BAG3_MOUSE BAG-family
1		[		1	molecular chaperone regulator-3 (BCL-2 binding
					athanogene-3) (BAG-3) (Bcl-2-binding protein Bis)
1493	15171	Al231792	ee,ff	1.	[M.musculus]
					ESTs, Highly similar to T-complex expressed gene
1494	2339	Al231798	hh		2 [Mus musculus] [M.musculus]
					ESTs, Moderately similar to I68673 gene X123
1495	23165	Al231799	y <b>,</b> z		protein - human (fragment) [H.sapiens]
			<del></del>		ESTs, Weakly similar to A55190 transitional
1 [					endoplasmic reticulum ATPase (EC 3.6.1)
1496	7036	AI231801	n,o,cc,dd		[validated] - rat [R.norvegicus]
1497		Al231810	j,k,jj,kk,ll		ESTs
					ESTs, Weakly similar to Y55B1AL.2.p
1498	13116	AI231812	С		[Caenorhabditis elegans] [C.elegans]
					ESTs, Highly similar to mitochondrial carrier
1					homolog 1; mitochondrial carrier homolog 1 isoform
1499	21189	Al231822	h,l		b [Mus musculus] [M.musculus]
1500	22591		a		ESTs
1501	15173	Al231846	d		ESTs
1502	14013	Al231992	hh		EST
1503	3434	Al232014	y,z,ee,ff		ESTs
					ESTs, Highly similar to SUI1_MOUSE Protein
1504	19094	Al232021	g		translation factor SUI1 homolog [M.musculus]
1505	8959	Al232128	cc,dd		ESTs
1506	14028	Al232184	d,gg		ESTs
				low density lipoprotein receptor-	
1		]		related protein associated	low density lipoprotein receptor-related protein
1507	409	Al232268	r	protein 1	associated protein 1
			······································		ESTs, Weakly similar to JC4914 anti-sigma cross-
	l	ł			reacting protein homolog I beta precursor - human
1508	2085	Al232270	hh		[H.sapiens]
					ESTs, Moderately similar to B53434 cell surface
	Į				glycoprotein gp49B form 2 precursor - mouse
1509	14031	Al232295	e		[M.musculus]
				purinergic receptor P2X, ligand-	
1510	4716	Al232313	c, <b>r</b>	gated ion channel 4	purinergic receptor P2X, ligand-gated ion channel 4
i					ESTs, Highly similar to CGI-150 protein [Homo
1511	14034	Al232321	n,o	·	sapiens] [H.sapiens]
1512			,k,p,q,y,z		ESTs
1513			cc,dd		ESTs
1514			1		ESTs
1515			nh		ESTs
1516			1		ESTs
			·	<del></del>	LOIS

TABLE 1			7		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
1517	11157	A1232494	w,x		ESTs ESTs, Weakly similar to S24C_HUMAN Protein
	1	,			transport protein Sec24C (SEC24-related protein C)
1510	12645	A1232694	L.		[H.sapiens]
1518	13043	A1232094	hh		ESTs, Weakly similar to E.coli YCAC like
1510	7205	AI232731			[Caenorhabditis elegans] [C.elegans]
1519	1200	A1232/31	99		ESTs, Highly similar to CG51_HUMAN Protein CGI-
1520	3100	Al232741	hh		51 [H.sapiens]
1020	3100	AIZOZI 41	'''		ESTs, Weakly similar to T27038 hypothetical
			ł		protein Y49E10.2 - Caenorhabditis elegans
1521	7147	AI232948	hh	1	[C.elegans]
1522		AI232982	ee,ff		ESTs
1523		AI233024	jj,kk		ESTs
					ESTs, Weakly similar to HE47_RAT Probable ATP-
1524	3823	AI233147	y,z	1	dependent RNA helicase p47 [R.norvegicus]
1525		AI233182	b		ESTs
					ESTs, Weakly similar to YQO9_CAEEL
į	}			İ	Hypothetical 141.2 kDa protein EEED8.9 in
1526	21948	Al233191	hh		chromosome II [C.elegans]
	1				
1	1				ESTs, Highly similar to RS18_HUMAN 40S
1527	15107	AI233220	h,I		ribosomal protein S18 (KE-3) (KE3) [R.norvegicus]
				ł	ESTs, Highly similar to cytokine receptor-like factor
			1	,	1; cytokine receptor like molecule 3 [Mus musculus]
1528	5228	AI233311	h,l,n,o		[M.musculus]
			1		ESTs, Weakly similar to ribosomal protein S23
1529		AI233316	hh		[Rattus norvegicus] [R.norvegicus]
1530		A1233374	n,o		ESTs
1531		AI233468	jj,kk		ESTs ESTs
1532		AI233714 AI233743	w,x hh		ESTs
1533 1534		AI233763	hh		ESTs
1535		Al233829	cc,dd,hh	P11 protein	P11 protein
1333	13003	A1233029	CC,GG,IIII	1 11 protein	ESTs, Weakly similar to PAB1_MOUSE
					Polyadenylate-binding protein 1 (Poly(A)-binding
1536	15685	A1233870	hh		protein 1) (PABP 1) (PABP1) [M.musculus]
1537		Al233965	r		ESTs
1538	1	AI234095	hh		ESTs
1539		Al234105	j,k,p,q		ESTs
1540		Al234222	a,ee,ff,jj,kk		ESTs
1541		AI234251	hh		ESTs
1542	2765	AI234283	n,o,hh		ESTs
1543	14202	AI234326	cc,dd		EST
1544	17664	AI234496	ii		ESTs
1545		Al234664	cc,dd		ESTs
1546		AI234748	a,kk		ESTs
1547		Al234822	j,k	DEXRAS1 (Dexras1)	DEXRAS1 (Dexras1)
1548	14700	AI234852	jj,kk		ESTs
l				growth and transformation-	
1549	18444	AI234915	_ ii	dependent protein	growth and transformation-dependent protein
1		1			ESTs, Weakly similar to ELV4_RAT ELAV-like
		11005000	<b>.</b> .		protein 4 (Paraneoplastic encephalomyelitis antigen
1550		A1235032	hh	<del>                                     </del>	HuD) (Hu-antigen D) [R.norvegicus]
155		A1235210	d " Li	<u> </u>	ESTS
1552	2 11246	Al235222	jj,kk	tissue inhibitor of	ESTs
155	1500	A1235224	alne walk	•	tissue inhibitor of metalloproteinase 1
1553 1554		Al235224 Al235277	a,l,n,o,x,z,kk	metalloproteinase 1	ESTs
1004	1 0034	INIZOUZI I	a,y,z	<u> </u>	E019

TABLE 1		· .			Atty. Ref. 44921-5090-01-WO/2105485
252		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1					ESTs, Highly similar to S25111 alpha-2-
,	,,,,,,		1	HMm:low density lipoprotein	macroglobulin receptor precursor - mouse
1555	11644	AI235282	n,o	receptor-related protein 1	[M.musculus]
1					ESTs, Weakly similar to MIC2_HUMAN T-cell
1550	4.4700	A1005004			surface glycoprotein E2 precursor (E2 antigen)
1556 1557		AI235284	99		(CD99) (MIC2 protein) (12E7) [H.sapiens]
100/	896	AI235313	h,i		ESTs
1558	1/100/	AI235377	W 7		ESTs, Moderately similar to synaptic nuclei
1559		AI235611	b b	ZAP 36/annexin IV	expressed gene 2 [Homo sapiens] [H.sapiens]
1005	0440	1 1/2000 F F		LAC SOMETHEXITIES	ZAP 36/annexin IV ESTs, Weakly similar to T42751 sulfonylurea
1560	3650	AI235738	r		receptor 2 - rat [R.norvegicus]
1000	- 5550	711200700	<u>-</u>		ESTs, Weakly similar to MGP1_MOUSE Microfibril-
					associated glycoprotein precursor (MAGP) (MAGP-
1561	14642	AI235874	h,l		[1) [M.musculus]
					ESTs, Highly similar to 2019405A upstream
					regulator element-binding protein [Rattus
1562	2687	A1235877	s,t		norvegicus] [R.norvegicus]
1563		Al235915	d,II		ESTs
					ESTs, Highly similar to NIDO_RAT NIDOGEN
1564		AI235948	g		(ENTACTIN) [R.norvegicus]
1565		Al235950	w,x,jj,kk		ESTs
1566	14861	AI236045	С		ESTs
					ESTs, Weakly similar to T13380 ribokinase
ļ					homolog - fruit fly (Drosophila melanogaster)
1567			aa,bb		[D.melanogaster]
1568		AI236146	t		ESTs
1569	14594	AI236152	b,d,u,v		ESTs
	40515	A1000175			ESTs, Moderately similar to I54411 MHC RT1-B A-
1570			C		alpha chain - rat (fragment) [R.norvegicus]
1571					ESTs
1572	500/	Al236229	s,t,aa,bb		ESTs
	İ				ESTs, Highly similar to IF6_MOUSE Eukaryotic
1573	22212	A1236294	kk		translation initiation factor 6 (eIF-6) (B4 integrin
1574			l,m		interactor) (CAB) (p27(BBP)) [M.musculus] ESTs
	10010	,200001	1,111		ESTs, Highly similar to S43429 diamine N-
	İ				acetyltransferase (EC 2.3.1.57) - mouse
1575	15051	AI236332	j,k,p,q,y,z,ee,ff		[M.musculus]
			11-1614111510111		ESTs, Highly similar to RIKEN cDNA 1700029H06
1576	4911	A1236405	cc,dd		[Mus musculus] [M.musculus]
1577			p,q		ESTs
1578			ii		ESTs
1579	9546		n,o		ESTs
1580	17950	AI236590	kk		ESTs
1581	18259	AI236601	p,q,ee,ff		ESTs
1582	11445	AI236613	r		ESTs
.				HMm:REV3-like, catalytic	ESTs, Highly similar to DPOZ_MOUSE DNA
					polymerase zeta catalytic subunit (Seizure related
1583		AI236669		RAD54 like (S. cerevisiae)	protein 4) [M.musculus]
1584			ee,ff		ESTs
1585				spermidine synthase	spermidine synthase
1586	12098	Al237075	L		ESTs
	1				ESTs, Highly similar to hepatitis B virus x-
	Ì			I II forbanatis	interacting protein; HBx-interacting protein; hepatitis
1587	18151	11227242		HHs:hepatitis B virus x	B virus x-interacting protein (9.6kD) [Homo sapiens]
1007	101011/	AI237212 [1	í,g,hh	interacting protein	[H.sapiens]

TABLE 1	1	∉ f GenBank Acc.	1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Alty. Ref.: 44921-5090-01-WO/2105485
SEO ID	GLGC ID			Kanin Care Name	
SEQ ID	GLGC ID	NO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
4500					ESTs, Weakly similar to YCE3_HUMAN
1588		AI237331	С		Hypothetical protein CGI-143 [H.sapiens]
1589		Al237535	a,j,k,p,q,y,z	LPS-induced TNF-alpha factor	LPS-induced TNF-alpha factor
1590	23288	Al237581	u,v		ESTs
	ļ .				ESTs, Moderately similar to JC1241 beta-interferon
1591	11208	AI237586	kk		induced protein - rat [R.norvegicus]
					ESTs, Weakly similar to G01614 zinc finger protein
1592	11375	A1237594	u,v		127 - human [H.sapiens]
					ESTs, Weakly similar to CNE6_MOUSE Copine VI
1593	18854	AI237636	f,g,l,m		(Neuronal-copine) (N-copine) [M.musculus]
1594	3615	Al237645	It	transferrin receptor	transferrin receptor
1595		Al237646	p,q,ee,ff		ESTs .
1596		AI237648	99		ESTs
1597		Al237698	kk		ESTs .
1598		Al237724	u,v		ESTs
	- 11012	7.1.2.0.7.2.1	0,1		
1599	9501	Al638949	c,f,g,v		ESTs, Moderately similar to chromosome 20 open
.000	3301		~,1,9, <b>v</b>		reading frame 116 [Homo sapiens] [H.sapiens]
1600	16340	AI638955	hh		ESTs, Highly similar to fox-1 homolog (C. elegans)
1601		Al639001	1181		[Mus musculus] [M.musculus]
1602		Al639001	h h l		ESTs
1002	1/214	A1039006	b,h,l		ESTs
4000	00704	41000040	1		ESTs, Weakly similar to hypothetical protein
1603	23/81	AI639012	a,h,l,n,o		MGC2601 [Homo sapiens] [H.sapiens]
4004					ESTs, Weakly similar to T17453 ERG-associated
1604		Al639017	[1]		protein ESET - mouse [M.musculus]
1605		Al639023	cc,dd		ESTs
1606	15450	Al639035	cc,dd		ESTs
1	İ				ESTs, Highly similar to Nedd4 WW binding# protein
					4; Nedd4 WW-binding protein 4 [Mus musculus]
1607		AI639058	a,q,y,z,ee,ff,ll		[M.musculus]
1608		AI639060	h,l,w,x		ESTs
1609		Al639076	j		
1610	16514	AI639093	hh		ESTs
1611	22555	Al639103	n,o		ESTs
1612	12400	Al639107	n,o		ESTs
1613	13882	Al639120	b		ESTs
1614		Al639128	jj,kk		ESTs
1615		AI639136	n,o		2013
1616		Al639139	11		ESTs
			<u> </u>		ESTs, Highly similar to pinin [Mus musculus]
1617	18482	Al639151	99		[M.musculus]
1618		AI639152	b,c,u,v		[ivi.muəculuə]
1619		Al639162	a,jj,kk,ll		ECT
1620		AI639167	d		ESTS
1621		Al639185	F	· · · · · · · · · · · · · · · · · · ·	ESTs
1622		Al639197	c,u,v		ESTs
1623		A1639203	u,v		EST
1624			s,t		ESTs
		A1639204	hh		
1625		A1639214	l,m		EST
1626		A1639246	h,l,j,k		ESTs
1627		A1639248	aa		
1628	1/083/	A1639255	e,gg		ESTs
	1				ESTs, Weakly similar to T17307 hypothetical
1629		Al639268	h,l,n,o,jj,kk		protein DKFZp566O084.1 - human [H.sapiens]
	16016	A1639308	ii		ESTs
1630					
1631	20461	A1639350	d,q,y,z,kk		ESTs
	20461	A1639350 A1639352	d,q,y,z,kk s,t		ESTs

TABLE '	1 - 1		3.2		Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	CI CC ID	GenBank Acc, No.	Madal Cada		
SECTIO.	GLGC ID	14Ö' ,	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		Ì			ESTs, Highly similar to RT06_MOUSE Mitochondrial 28S ribosomal protein S6 (MRP-S6)
1634	19152	Al639387	cc,dd		M.musculus)
1635		Al639402	ii		ESTs
1636		Al639410	cc,dd		ESTs
1637		Al639425	k,kk		ESTs
1638		Al639452	е		
1639		AI639466	n,o		EST
1640	22763	Al639474	e,gg		ESTs
				HMm:transformed mouse 3T3	ESTs, Highly similar to A42772 mdm2 protein - rat
1641		Al639488	d	cell double minute 2	(fragments) [R.norvegicus]
1642	5998	Al639501			ESTs_
i					ESTs, Weakly similar to T13607 hypothetical
1643	20056	Al639504			protein 87B1.3 - fruit fly (Drosophila melanogaster)
1644		Al639510	w,x,ii d		[D.melanogaster] ESTs
1044	10004	10000010	u .		EST, Weakly similar to SPCA_HUMAN Spectrin
					alpha chain, erythrocyte (Erythroid alpha-spectrin)
1645	20083	AI639523	s,t,hh		[H.sapiens]
				3'(2'),5'-bisphosphate	[ Nochono]
1646	23219	AJ000347	n,o	nucleotidase	3'(2'),5'-bisphosphate nucleotidase
				solute carrier family 5 (inositol	
1647			b,1,m	transporters), member 3	
1648	7602	AJ001929	f,aa	reticulocalbin	reticulocalbin
4040	00407	. 1044440		Endothelial nitric oxide synthase	1
1649	20127	AJ011116	j,k,n,o	3	Endothelial nitric oxide synthase 3
1650	2404	AJ011607			ESTs, Highly similar to C46642 DNA primase (EC
1000	2401	73011001	<u>u</u>		2.7.7) 54K chain - mouse [M.musculus] ESTs, Weakly similar to FK506 binding protein 2
1651	20519	C06598	aa,bb		(13 kDa) [Rattus norvegicus] [R.norvegicus]
					(10 NDa) [ratios norvegicus] [ranorvegicus]
				dodecenoyl-Coenzyme A delta	Rat mRNA for delta3, delta2-enoyl-CoA isomerase,
				isomerase (3,2 trans-enoyl-	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-
1652	18686	D00729	g,hh	Coenyme A isomerase)	enoyl-Coenyme A isomerase)
				dihydrolipoamide	
1653	5049	D10655	g,w,cc,dd,jj,kk	acetyltransferase	dihydrolipoamide acetyltransferase
4050	5050	D40055		dihydrolipoamide	
1653	5050	D10655	f,g,cc,dd	acetyltransferase	dihydrolipoamide acetyltransferase
				solute carrier family 25 (mitochondrial adenine	
				•	solute carrier family 25 /mitochandrial adapting
1654	19053	D12770	aa,bb	4	solute carrier family 25 (mitochondrial adenine nucleotide translocator) member 4
	.5505			Solute carrier family 25, member	macconde translocator) themiaer 4
		ļ		5 (adenine nucleotid	Solute carrier family 25, member 5 (adenine
		-			nucleotid translocator 2, fibroblast isoform (ATP-
1655		D12771	f,g	(ATP-ADP carrier protein))	ADP carrier protein))
1656		D13623	s,t		
1656		D13623	a,d		ESTs
1657	25041	D14014	f	Cyclin D1	Cyclin D1
1050	47004	DOEGGG		Retinoblastoma 1 (including	
1658				osteosarcoma)	Retinoblastoma 1 (including osteosarcoma)
1659 1660		55555	c,f,u,v	cold shock domain protein A	cold shock domain protein A
1661			S OO	RAS p21 protein activator 2	
	20210	200104			ESTs, Highly similar to S60038 multicatalytic
	l				endopeptidase complex (EC 3.4.99.46) alpha chain
1662	.9029	D30804			RC6-I - rat [R.norvegicus]
	<u>-</u> 1		···	·	proof relatification regional

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1				proteasome (prosome,	
				macropain) 26S subunit,	proteasome (prosome, macropain) 26S subunit,
1663	1884	D50695	s,t	ATPase, 4	ATPase, 4
				Solute carrier family 1 A1 (brain	Solute carrier family 1 A1 (brain glutamate
1664		D63772	j,k,p	glutamate transporter)	transporter)
1665		D83538	u,v	phosphatidylinositol 4-kinase	phosphatidylinositol 4-kinase
1666	25306	D84485	u,v		
					ESTs, Highly similar to JC5621 epidermal growth
					factor-like protein, T16 precursor - rat
1667	22762	D89730	bb		[R.norvegicus]
			†	fatty acid Coenzyme A ligase,	
1668		D90109	11	long chain 2	fatty acid Coenzyme A ligase, long chain 2
1669	25801	E12286	w,x		
					ESTs, Moderately similar to 1914275A non-receptor
1670		H31144	j,k		Tyr kinase [Homo sapiens] [H.sapiens]
1671		H31456	cc,dd		ESTs
1672		H31625	d		ESTs
1673	13083	H31665	t		ESTs
					EST, Moderately similar to S12207 hypothetical
1674		H31802	jj,kk		protein (B2 element) - mouse [M.musculus]
1675		H31842	l,m		ESTs
1676		H31982	b		ESTs
1677		H33001	e,y,z,jj,kk		ESTs
1678		H33101	r		ESTs
1679		H33219	e,hh		ESTs
1680		H33426	a,h,jj,kk,ll		ESTs
1681		H33472	С		EST
1682		H33528	h,l,p,q,y,z		ESTs
1683		H33656	С		ESTs
1684	16714	H33660	d		ESTs
					ESTs, Highly similar to IF39_HUMAN Eukaryotic
4005	45074				translation initiation factor 3 subunit 9 (eIF-3 eta)
1685	153/4	H34186	j,k		(elF3 p116) (elF3 p110) [H.sapiens]
1000	47450	100707			
1686	17159	J00797	w,x,aa,bb,hh,ll	alpha-tubulin	alpha-tubulin
	i			Rattus norvegicus	
9	46420	104 405		mitochondrial genome.	
	10130	J01435	bb	9/22Length = 16,3	unknown Glu-Pro dipeptide repeat protein
1	1	İ		Rattus norvegicus	
۵	25210	J01435	<b>L</b> L	mitochondrial genome.	
9	20019	301433	bb	9/22Length = 16,3	
ı		İ		Rattus norvegicus	
9	25050	J01435	hh	mitochondrial genome.	
	23030	001400	bb	9/22Length = 16,3	
ļ	1	]		Rattus norvegicus	
10	25051	J01436	hh	mitochondrial genome.	
- 10	20001	001430	bb	9/22Length = 16,3	
1687	16260	J01878			Rat brain-specific identifier sequence RNA, clone
1007	10200	001070	J,V	Branchod chain alaba kata - ' '	p1b224
İ		1		Branched chain alpha-ketoacid dehydrogenase subunit E1	Department of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
1688	17285	102827		alpha	Branched chain alpha-ketoacid dehydrogenase
1689			,aa,bb	Tropoelastin	subunit E1 alpha
1690		42.4	)	Oxytocin/neurophysin	Tropoelastin
				butyrophilin-like 2 (MHC class II	Oxytocin/neurophysin
1691	14968	K02815		associated)	huturanhilin Elea 2 (AH 10 -1 II
	555	102010		pR-ET2 encoded	butyrophilin-like 2 (MHC class II associated)
1692	23486	K02816		oncodevelopmental protein	nD ET2 opposed on and development of the
1693				Elastase 2, pancreatic	pR-ET2 encoded oncodevelopmental protein
			- 7-7-1	Ligitabe 2, particibalit	Elastase 2, pancreatic

TABLE 1		~ ~ ~			Atty. Ref. 44921-5090-01-WO/2105485
CCO ID		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code.		Unigene Sequence Cluster Title
4004	47500		L .	Structure specific recognition	
1694		L08814	ii	protein 1	Structure specific recognition protein 1
1695		L13025	9		
1696		L13202	n,o	forkhead box D3	
1697		L17077	е		
1698	6963	L18889	e	calnexin	
4000	0.4500				Rattus norvegicus pancreatitis associated protein III
1699	24520	L20869	<u>e</u>		(PAPIII0) mRNA, complete cds
4700	05040		ŀ	POU domain, class 2,	
1700	25816	L23863	n,o	transcription factor 3	POU domain, class 2, transcription factor 3
					ESTs, Highly similar to A53047 6-
4704	40050	10000	l		phosphofructokinase (EC 2.7.1.11) - rat
1701		L25387	W	phosphofructokinase, platelet	[R.norvegicus]
1701	253//	L25387	hh	phosphofructokinase, platelet	<u> </u>
4700	40000	1.00.400			ESTs, Moderately similar to I54552 hypothetical
1702	13082	L38482	е	HHs:cell division cycle 34	serine proteinase - rat [R.norvegicus]
4700	44055	1 40000		cytochrome c oxidase, subunit	
1703		L48209	hh	VIIIa	cytochrome c oxidase, subunit VIIIa
1704		M13011	l,m,ll		
1705		M13100	p		
1705			hh		
1705		M13100	f,g		
1705		M13100	hh		ESTs
1706		M13101	1		
1707	1466	M14050		Heat shock 70kD protein 5	ESTs, Heat shock 70kD protein 5
4700	00744	144 4070		Cytochrome P450, subfamily	
1708	20/14	M14972	s,t	IVB, polypeptide 1	Cytochrome P450, subfamily IVB, polypeptide 1
4700	40055				Rat (diabetic BB) MHC class II alpha chain RT1.D
1709	19255	M15562	С		alpha (u)
4700	10050				Rat (diabetic BB) MHC class II alpha chain RT1.D
1709		M15562	С		alpha (u)
1710			99		
1711	16427	M21354	f,g	procollagen, type III, alpha 1	procollagen, type III, alpha 1
	ŀ				ESTs, Highly similar to A32296 ubiquinol—
	1			HHs:ubiquinol-cytochrome c	cytochrome-c reductase (EC 1.10.2.2) Rieske iron-
4740	45040	1104540		reductase, Rieske iron-sulfur	sulfur protein precursor - rat (fragment)
1712				polypeptide 1	[R.norvegicus]
1713		M27207		procollagen, type I, alpha 1	procollagen, type I, alpha 1
1714	25438	M32757	l,m		
4745	45500	1400040			Rat mitochondrial 3-hydroxy-3-methylglutaryl-CoA
1715	15580	M33648	y,z		synthase mRNA, complete cds
. 4740	47044	404004	., 1		
1716	1/211	M34331	cc,dd		Rattus norvegicus mRNA for ribosomal protein L35
4740	00000	404004			
1716	20030	M34331	g	Dettus	Rattus norvegicus mRNA for ribosomal protein L35
		I		Rattus norvegicus	
	05400	405000		mitochondrial genome.	
11	25439	M35826	bb	9/22Length = 16,3	
.				-	Rat mRNA for MHC class II antigen RT1.B-1 beta-
1747	0000	MOCAEA	.		chain, Rattus norvegicus MHC class II antigen
1717			C		RT1.B beta chain mRNA, partial cds
1718		100500		sepiapterin reductase	sepiapterin reductase
1719	1/145	M38566	99	Serine protease inhibitor	Serine prolease inhibitor
1700	4500	ME7700	_		Rat general mitochondrial matrix processing
1720			C		protease (MPP) mRNA, 3' end
1721	24844	VI58040	u,v	transferrin receptor	transferrin receptor
1	1	1			
4700	2422	450700			Ca channel, voltage-dependent, L type, alpha 1c
1722	24662	VID9/86	l,m,jj,kk	L type, alpha 1c subunit	subunit

TABLE 1		, r_	. %	1 P 12	Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc. No	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1723		M60666	aa	Tropomyosin 1 (alpha)	Tropomyosin 1 (alpha)
1724		M62992	l,m		
1725		M64780	r,jj,kk	Agrin	Agrin
1725	10744	M64780	f	Agrin	Agrin
1726	5733	M81855	d	ATP-binding cassette, sub- family B (MDR/TAP), member 1 (P-glycoprotein/multidrug resistance 1)	ATP-binding cassette, sub-family B (MDR/TAP), member 1 (P-glycoprotein/multidrug resistance 1)
				dimerization cofactor of hepatocyte nuclear factor-1-	
1727		M83740	I,m	alpha	
1728	3762	M86341	s,t	ADP-ribosylarginine hydrolase	ADP-ribosylarginine hydrolase
			ļ	Fibroblast growth factor receptor	ESTs, Highly similar to JC1450 fibroblast growth
1729		M91599	cc,dd	4	factor receptor 4 - rat [R.norvegicus]
1730	25470	M95791	e,aa,bb		
				ATPase, Ca++ transporting,	
1731	17991	M96626	cc,dd,gg	plasma membrane 3	ATPase, Ca++ transporting, plasma membrane 3
				Rattus norvegicus acetyl-CoA	
				acyltransferase, 3-oxo acyl-	
				CoAthiolase A (Acaa), mRNA.	Acetyl-CoA acyltransferase, 3-oxo acyl-CoA
1732	23698	NM_012489	l	11/22Length = 1619	thiolase A 1, peroxisomal
				Rattus norvegicus Aldehyde	
				reductase 1 (low Km aldose	
		•		reductase) (5.8 kb Pstl	
				fragment, probably the	
					Aldehyde reductase 1 (low Km aldose reductase)
1733	15511	NM_012498	ü	11/22Length = 1339	(5.8 kb Pstl fragment, probably the functional gene)
				Rattus norvegicus ATPase,	
		1		Na+K+ transporting, alpha	
				2(Atp1a2), mRNA. 11/22Length	
1734	583	NM_012505.	h,l	= 519	ATPase, Na+K+ transporting, alpha 2 polypeptide
1735	1745	NM_012513	p,q,li	Rattus norvegicus Brain derived neurothrophic factor (Bdnf).mRNA. 4/22Lenath = 185	Brain derived neurothrophic factor
				Rattus norvegicus Calmodulin	
				III (Calm3), mRNA. 11/2Length	
1736	20518	NM_012518	n,o,r	= 691	Calmodulin III
			,-,-	Rattus norvegicus	
1737	25365	NM_012519	u,v,li	Ca++/calmodulin-dependent protein kinase 2delta subunit (Camk2d), mRNA. 11/22Length = 5637	Ca++/calmodulin-dependent protein kinase II, delta subunit
1737		NM_012519	ı	Rattus norvegicus Ca++/calmodulin-dependent protein kinase 2delta subunit (Camk2d), mRNA. 11/22Length = 5637	Ca++/calmodulin-dependent protein kinase II, delta subunit
1737		NM_012519	i,k	Rattus norvegicus Ca++/calmodulin-dependent protein kinase 2delta subunit (Camk2d), mRNA. 11/22Length = 5637	Ca++/calmodulin-dependent protein kinase II, delta subunit
	2.50	0.20.0	,	Rattus norvegicus Catalase	
				(Cat), mRNA. 11/22Length =	
1738	157/1	NM_012520	la	(2495	Catalase
	10/41	1114 0 12020	"	Rattus norvegicus creatine	Odiaiast
1739	4467	NM_012529	f,g	kinase, brain (Ckb), mRNA. 11/22Length = 1146	Creatine kinase, brain
1100	1 7707	10.12020	1.1.4	I - MEECCHIGHT - 1140	Orcamo miaso, oram

TABLE 1		TO P		# 45 L L L L L	Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	01.00.10	GenBank Acc			
SECTIO	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus creatine	
4700	4400	l	1	kinase, brain (Ckb), mRNA.	
1739	4468	NM_012529	g	11/22Length = 1146	Creatine kinase, brain
			j	Rattus norvegicus	
				Catecholamine-O-	
			ł	methyltransferase	
			1	(Comt),mRNA. 11/2Length =	
1740	11115	NM_012531	f,g	1531	Catecholamine-O-methyltransferase
				Rattus norvegicus	
				Catecholamine-O-	
				methyltransferase	
			1	(Comt),mRNA. 11/2Length =	1
1740	11116	NM_012531	f,g	1531	Catecholamine-O-methyltransferase
		•		Rattus norvegicus	
				Ceruloplasmin (ferroxidase)	
1741	16520	NM_012532	c	(Cp), mRNA. 11/22Length = 37	Ceruloplasmin (ferroxidase)
				Rattus norvegicus Crystallin,	, , , , , , , , , , , , , , , , , , , ,
į				alpha polypeptide A (Cryaa),	
1742	20357	NM_012534	cc,dd	mRNA. 3/22Length = 156	Crystallin, alpha polypeptide A
				Rattus norvegicus cytochrome	- 7
1			1	P45, 1a2 (Cyp1a2),	Cytochrome P450, subfamily I (aromatic compound-
1743	20704	NM_012541	aa,bb	mRNA.11/22Length = 1542	inducible), member A2 (Q42, form d)
			<del>                                     </del>	Rattus norvegicus D site	Three or the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
- 1				albumin promoter binding	<u>'</u>
			Ì	protein (Dbp), mRNA.	
1744	1762	NM_012543	lf	11/22Length = 1671	D site albumin promoter binding protein
				Rattus norvegicus D site	b site abuning promoter binding protein
				albumin promoter binding	
1			ĺ	protein (Dbp), mRNA.	:
1744	1763	NM_012543	hh	11/22Length = 1671	D site albumin promoter binding protein
				Rattus norvegicus angiotensin	D site abunin promoter binding protein
į	i			1 converting enzyme 1 (Ace),	Angiotensin I-converting enzyme (Dipeptidyl
1745	225	NM_012544	aa,bb	mRNA. 11/22Length = 4142	carboxypeptidase 1)
			-	Rattus norvegicus Early growth	(carboxypepildase 1)
	I		a.h.l.p.g.v.z ee	response 1 (Egr1), mRNA.	
1746	23868	NM_012551	.ff	11/22Length = 3112	Early growth response 1
		0 1200 1		Rattus norvegicus Early growth	Lany growth response 1
1	i		1	response 1 (Egr1), mRNA.	
1746	23869	NM_012551	a,h,i,p,q,y,z	11/22Length = 3112	Early growth response 1
			-iibidilir	Rattus norvegicus Early growth	Lany grown response 1
	i			response 1 (Egr1), mRNA.	
1746	23871	NM_012551	p,q,y,z,ii	11/22Length = 3112	Early growth response 4
- :	200, 1	012001	P14111511	Rattus norvegicus Early growth	Early growth response 1
	1		1	response 1 (Egr1), mRNA.	
1746	23872	NM_012551	navz	11/22Length = 3112	Forty growth responses 4
- 1770	20072	12001	p,q,y,z	Rattus norvegicus Fibrinogen,	Early growth response 1
	-			gamma polypeptide (Fgg),	
1747	6477	NM_012559	_		Fibricana
	U-11/		Z	mRNA. 11/2Length = 1358 Rattus norvegicus Fibrinogen,	Fibrinogen, gamma polypeptide
- 1					
1747	6470	NM_012559		gamma polypeptide (Fgg),	
1/4/	04701	VIVI_U 12339	y,z	mRNA. 11/2Length = 1358	Fibrinogen, gamma polypeptide
	1			Rattus norvegicus Glucokinase	
1740	640	IM DADECE		(Gck), mRNA. 11/22Length =	<u></u>
1748	019	VM_012565	I,m,n,o	2326	Glucokinase
1	1			Rattus norvegicus Gap junction	
				protein, alpha 1, 43 kD(connexin	· .
4740	400	114 040507		43) (Gja1), mRNA. 11/2Length =	
1749	482	NM_012567	s,t	2768	Gap junction protein, alpha 1, 43 kD (connexin 43)

TABLE 1			: , 5-		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		· 高級化學 克勒斯 (1997)	[3] 等14 多數號與特別等 5.5 元
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	1			Rattus norvegicus Histone H1-	
				(H1f), mRNA. 11/2Length =	
1750	16025	NM_012578	p,q	1779	Histone H1-0
				Rattus norvegicus Histone H1-	
4750	40000			(H1f), mRNA. 11/2Length =	
1750	16026	NM_012578	p,q,s,t,ee,ff	1779	Histone H1-0
		1		Rattus norvegicus Heme	
1751	40000	NN 040500		oxygenase (Hmox1), mRNA.	
1751	16080	NM_012580	p,q,y,z,kk	1/22Length = 87	Heme oxygenase
			1	Rattus norvegicus Homeo box	
1752	1700	NIM 010501	<u> </u>	A2 (Hoxa2), mRNA. 1/22Length	4.
1732	1700	NM_012581	ii	= 1576	homeobox A2
1 1				Rattus norvegicus Homeo box	
1752	1700	NM_012581	l m	A2 (Hoxa2), mRNA. 1/22Length = 1576	h1 40
1752	1703	14W_012301	l,m	Rattus norvegicus 5-	homeobox A2
				hydroxytryptamine (serotonin)	
				receptor 1A (Htr1a), mRNA.	•
1753	20313	NM_012585	b,u,v	11/22Length = 1269	5 Hudrovida (plamina (coretania) recentes 14
			-,5,.	Rattus norvegicus insulin-like	5-Hydroxytryptamine (serotonin) receptor 1A
				growth factor binding protein3	
1 1				(lgfbp3), mRNA. 11/22Length =	
1754	15098	NM_012588	bb	2352	Insulin-like growth factor-binding protein (IGF-BP3)
				Rattus norvegicus Interleukin 6	insum the growth factor-briding protein (101 -DF 3)
				(interferon, beta 2) (II6), mRNA.	
1755	24716	NM_012589	j,k,p,q	11/22Length = 146	Interleukin 6 (interferon, beta 2)
					( , , , , , , , , , , , , , , , , , , ,
1 1	İ		·	Rattus norvegicus Isovaleryl	
	1			Coenzyme A dehydrogenase	
1756	4450	NM_012592	С	(Ivd), mRNA. 11/22Length = 214	Isovaleryl Coenzyme A dehydrogenase
1				Rattus norvegicus Lactate	
4757	7405			dehydrogenease B (Ldhb),	
1757	/125	NM_012595	aa,bb	mRNA.11/2Length = 1217	Lactate dehydrogenease B
1 1					ESTs, Highly similar to JH0790 lipoprotein lipase
1758	19296	NM_012598		lipase (Lpl), mRNA.	(EC 3.1.1.34) precursor - rat [R.norvegicus],
1730	10300	14141_012090	w,x	11/22Length = 3617	Lipoprotein lipase
	ł			Rattus norvegicus Lipoprotein lipase (Lpl), mRNA.	
1758	18387	NM 012598	w,x	11/22Length = 3617	t ipoprotoin linaco
	.5007	0 12000	***,^	Rattus norvegicus v-myc avian	Lipoprotein lipase
	1	ĺ		myelocytomatosis virat	
	ĺ				Avian myelocytomatosis viral (v-myc) oncogene
1759	2628	NM_012603	a,p,q,y,z		homolog
				Rattus norvegicus v-myc avian	
		İ		myelocytomatosis viral	
	1		a,j,k,p,q,y,z,ee		Avian myelocytomatosis viral (v-myc) oncogene
1759	2629	NM_012603	,ff,kk		homolog
				Rattus norvegicus	
l . l	1		:	Neurofibromatosis type 1 (Nf1),	
1760	25450	NM_012609	n,o	mRNA. 11/2Length = 9132	
		1		Rattus norvegicus Nerve	
				growth factor receptor, fast	
470	400-			(Ngfr),mRNA. 11/2Length =	
1761	1298	NM_012610	d	3259	Nerve growth factor receptor, fast
		1		Rattus norvegicus Nerve	
	- 1	ľ		growth factor receptor, fast	l l
1761	1200	NM_012610		(Ngfr),mRNA. 11/2Length =	
1/01	1233	4W_U1ZU1U	cc,dd	3259	Nerve growth factor receptor, fast

TABLE 1	<u>, , , , , , , , , , , , , , , , , , , </u>	·	•	Para St.	Atty. Ref. 44921-5090-01-WO/2105485
050 ID	01.00.10	GenBank Acc.			
SEQ ID:	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Raltus norvegicus natriuretic	
1762	639	NM_012613	an bb	peptide receptor 1 (Npr1),	Notice of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat
1702	000	14141_012013	aa,bb	mRNA.11/22Length = 468 Rattus norvegicus	Natriuretic peptide receptor A/Guanylate cyclase A
			ĺ	Neuropeptide Y (Npy), mRNA.	
1763	24506	NM_012614	c	11/22Length = 539	Neuropeptide Y
				Rattus norvegicus S1 calcium-	- Neuropopudo I
1				binding protein A4	
				(S1a4),mRNA. 1/22Length =	
1764	20589	NM_012618	h,l,n,o,w,x	487	S100 calcium-binding protein A4
				Rattus norvegicus serine (or	
				cysteine) proteinase inhibitor,member 1 (Pai1),	serine (or cysteine) proteinase inhibitor, clade E
1765	15540	NM_012620	a,kk	mRNA. 11/22Length = 353	(nexìn, plasminogen activator inhibitor type 1), member 1
	10010	14111_012020	u,kk	Rattus norvegicus Protein	(member )
				kinase C, type I (gamma type)	
]			1	(Prkcg), mRNA. 11/2Length =	
1766	25133	NM_012628	99	3113	
				Rattus norvegicus protein	
				tyrosine phosphatase, non-	
4707	4044			receptor type 1 (Ptpn1), mRNA.	
1767	1841	NM_012637	d,jj,kk	1/22Length = 4127	protein tyrosine phosphatase, non-receptor type 1
			1	Rattus norvegicus protein	
				tyrosine phosphatase, non- receptor type 1 (Ptpn1), mRNA.	ECTo protoin furncian phoenhatons and constant
1767	1844	NM_012637	p,q,y,z	1/22Length = 4127	ESTs, protein tyrosine phosphatase, non-receptor type 1
		0	P141)12		ESTs, Weakly similar to A60716 somatotropin
				gene (RT1Aw2), mRNA.	intron-related protein RDE.25 - rat (fragment)
1768	14924	NM_012645	cc,dd	11/22Length = 154	[R.norvegicus], RT1 class lb gene
				Rattus norvegicus syndecan 4	
				(Sdc4), mRNA. 11/22Length =	
1769	9423	NM_012649	j,k,y,z	2462	Ryudocan/syndecan 4
				Rattus norvegicus Secreted	
				acidic cystein-rich glycoprotein (osteonectin) (Sparc), mRNA.	Secreted acidic cystein-rich glycoprotein
1770	16217	NM_012656	c,aa,bb	11/2Length = 225	(osteonectin)
1			-,,	Rattus norvegicus Secreted	(Conconcoun)
	ļ		,	acidic cystein-rich glycoprotein	
	1			(osteonectin) (Sparc), mRNA.	Secreted acidic cystein-rich glycoprotein
1770	16218	NM_012656	n,o	11/2Length = 225	(osteonectin)
	l			Rattus norvegicus Secreted	
				acidic cystein-rich glycoprotein	
1770	16210	NM_012656	r aa	(osteonectin) (Sparc), mRNA.	Secreted acidic cysteln-rich glycoprotein
1110	10219	14W_U1Z030	r,gg	11/2Length = 225 Rattus norvegicus Secreted	(osteonectin)
				acidic cystein-rich glycoprotein	
	1			(osteonectin) (Sparc), mRNA.	Secreted acidic cystein-rich glycoprotein
1770	16220	NM_012656	h,l,aa,bb	11/2Length = 225	(osteonectin)
				Rattus norvegicus Secreted	<u> </u>
				acidic cystein-rich glycoprotein	
4	4000				Secreted acidic cystein-rich glycoprotein
1770	16221	NM_012656	d	11/2Length = 225	(osteonectin)
				Rattus norvegicus steroid	
1771	21087	NM_012661		sulfatase (Sts), mRNA.	Charaid audiatasa
	21007	4W_012001	w,uu	11/22Length = 2472 Rattus norvegicus vesicle-	Steroid sulfatase
			l	associated membrane protein 2	
				(Vamp2), mRNA. 1/22Length =	Vesicle-associated membrane protein
1772	16197	VM_012663		271	(synaptobrevin 2)
	·····	<del></del>	f	<del></del>	(-)p.:sais-in-e/

TABLE 1	<u> </u>				Atty. Ref. 44921-5090-01-WO/2105485
220 12	 01 00 ID	GenBank Acc.	, e',		
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	İ		ł	Rattus norvegicus troponin T2	
1773	24854	NM_012676	aa bb	(Tnnt2), mRNA. 11/22Length = 196	Transpin T. parding
1773	24034	NIVI_012076	aa,bb	Rattus norvegicus Tropomycin	Troponin T, cardiac
				4 (Tpm4), mRNA. 11/22Length	
1774	1514	NM_012678	bb	= 9	Tropomyosin 4
				Rattus norvegicus Dystrophin	
				(Dmd), mRNA. 11/22Length =	
1775	425	NM_012698	hh	124	Dystrophin
				Rattus norvegicus	
	:	•	į	prostaglandin E receptor 3 (	
1776	504	NIM 012704	<b> </b>	subtype EP3)(Ptger3), mRNA.	Det kide ou needted edie ED2 oo oo to
1770	301	NM_012704	lii	1/22Length = 1253 Rattus norvegicus	Rat kidney prostaglandin EP3 receptor
				prostaglandin E receptor 3 (	
				subtype EP3)(Ptger3), mRNA.	
1776	503	NM_012704	n,o	1/22Length = 1253	Rat kidney prostaglandin EP3 receptor
				Rattus norvegicus proteosome	
				(prosome, macropain) subunit,	
				beta type 9 (large multifunctional	
1777	4003	NM_012708	e	protease 2) (Psmb9), mRNA. 11/22Length = 88	Low malagular mass naturantide 2
<del>''''</del>	4000	14141_012700	<u> </u>	Rattus norvegicus	Low molecular mass polypeptide 2
				adrenomedullin (Adm), mRNA.	
1778	322	NM_012715	d,gg	11/22Length = 1395	Adrenomedullin
				Rattus norvegicus Solute	
				carrier 16 (monocarboxylic acid	
	1			transporter), member 1	
4770	20000	NIN 040740			Solute carrier 16 (monocarboxylic acid transporter),
1779	20888	NM_012716	c,e	332 Rattus norvegicus Solute	member 1
1	- 1			carrier 16 (monocarboxylic acid	
	1			transporter), member 1	
				(Slc16a1), mRNA. 11/2Length =	Solute carrier 16 (monocarboxylic acid transporter),
1779	20889	NM_012716	e,aa,bb	332	member 1
	1			Rattus norvegicus Calcitonin	
		ł		receptor-like receptor	
1780	1630	NIM 012717	n v	(Calcrl),mRNA. 11/22Length =	Colsitoria recentor lika recentor
1700	1032	NM_012717	u,v	295 Rattus norvegicus lipase A,	Calcitonin receptor-like receptor
	ļ	1		lysosomal acid (Lipa),	
1781	25563	NM_012732	f,g	mRNA.1/22Length = 3144	Cholesterol esterase (pancreatic)
				Rattus norvegicus lipase A,	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3
				lysosomal acid (Lipa),	
1781	16613	NM_012732	g	mRNA.1/22Length = 3144	Cholesterol esterase (pancreatic)
				Rattus norvegicus retinol-	
1782	23806	NM_012733	j,k	binding protein 1 (Rbp1), mRNA.11/22Length = 695	Retinol-binding protein 1
1102	23000	1111_012100	J,ix	Rattus norvegicus Hexokinase	Lemo-mining brotem i
	ŀ			2 (Hk2), mRNA. 11/22Length =	
1783	25264	NM_012735	y,z,gg	3635	<b>!</b>
				Rattus norvegicus Glycerol-3-	
				phosophate dehydrogenase	
1704	25050	NIM 040700		2(mitochondrial) (Gpd2), mRNA.	Glycerol-3-phosophate dehydrogenase 2
1784	20000	NM_012736	d	11/2Length = 24 Rattus norvegicus Pyruvate	(mitochondrial)
		ļ		carboxylase (Pc), mRNA.	
1785	1478	NM_012744	n,o		Pyruvate carboxylase
	, .,		,•		1 Jiurale odruovyidae

TABLE	1.	IConDonl. A.	1, 1		Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC II	GenBank Ac	c. Model Code	Known Gene Name	
· · · ·		,	IWOGEI OOGE	Rattus norvegicus signal	Unigene Sequence Cluster Title
	İ			transducer and activator of	
		1	ļ	transcription 3 (Stat3), mRNA.	
1786	34:	3 NM_012747	n,o	11/22Length = 2924	
				Rattus norvegicus Nucleolin	Signal transducer and activator of transcription 3
i			j	(Ncl), mRNA. 11/22Length =	
1787	8829	NM_012749	j,k,hh,kk	2142	Nucleolin .
			T	Rattus norvegicus Glucose	INdiceolini .
				transporter 4, insuline-	
			1	responsive (Glut4), mRNA.	solute carrier family 2 (facilitated glucose
1788	3600	NM_012751	а	11/22Length = 256	transporter), member 4
i				Rattus norvegicus Glucose	inchiportary, frictinger 4
l l		Ĭ	į	transporter 4, insuline-	
4700			1	responsive (Glut4), mRNA.	solute carrier family 2 (facilitated glucose
1788	3601	NM_012751	t	11/22Length = 256	transporter), member 4
1				Rattus norvegicus Fyn proto-	
4700	40701			oncogene (Fyn), mRNA.	1
1789	13/31	NM_012755	r	9/22Length = 1844	Fyn proto-oncogene
-			1	Rattus norvegicus insulin-like	
1700	45474	104 040000	1	growth factor 2 receptor (lgf2r),	
1790	151/4	NM_012756	m	mRNA. 11/22Length = 881	Insulin-like growth factor 2 receptor
				Rattus norvegicus caspase 1	
1791	10000	NIM 040700	1	(Casp1), mRNA. 11/22Length =	1
1/91	10000	NM_012762	aa,bb	129	Interleukin 1beta converting enzyme
- 1				Rattus norvegicus caspase 1	
1791	18068	NM_012762	L	(Casp1), mRNA. 11/22Length =	
-,,,,	10000	TVIVI_012702	е	129	Interleukin 1beta converting enzyme
			1	Rattus norvegicus Cyclin D3	
1792	17257	NM_012766	e,aa,bb,ee,ff	(Ccnd3), mRNA. 11/22Length = 1843	i e
		012.00	C,dd,DD,CC,II	Rattus norvegicus Cyclin D3	Cyclin D3
1	i			(Ccnd3), mRNA. 11/22Length =	
1792	17261	NM_012766	l,m	1843	Cualin D2
				Rattus norvegicus aquaporin 1	Cyclin D3
.	ľ		ļ	(Aqp1), mRNA. 11/22Length =	Aquaporin 1 (aquaporin channel forming integral
1793	5758	NM_012778	p,q,s,t	2623	protein 28 (CHIP))
			1.7.7.	Rattus norvegicus aquaporin 5	protein 26 (CHIP))
	- 1		1	(Aqp5), mRNA. 11/22Length =	
1794	104	VM_012779	ü	1426	Aquaporin 5
T				Rattus norvegicus Cytochrom c	i dachoun o
	- 1			oxidase subunit VIII-H	
			1	(heart/muscle) (Cox8h), mRNA.	
1795	449	VM_012786	hh	11/22Length = 33	Cytochrome c oxidase subunit VIII-H (heart/muscle)
				Rattus norvegicus Cytochrom c	, , , , , , , , , , , , , , , , , , ,
				oxidase subunit VIII-H	
		i.		(heart/muscle) (Cox8h), mRNA.	
1795	450 1	M_012786	f,hh	11/22Length = 33	Cytochrome c oxidase subunit VIII-H (heart/muscle)
	1				
		1		Rattus norvegicus Drosophila	
				discs-large tumor	
				suppressorhomologue (synapse	
1700	. 4050			associated protein) (Dlg1),	Drosophila discs-large tumor suppressor
1796	1952 N	M_012788	99	mRNA. 11/2Length = 3256	homologue (synapse associated protein)
		ł	[	Rattus norvegicus Dual	
- 1	i	l		Specificity Yak1-related kinase	
	ı			(Dyrk),mRNA. 11/22Length =	dual-specificity tyrosine-(Y)-phosphorylation
1797	24442	M_012791		284	dual-specificity tyrosifie-( r )-phosphorylation

TABLE	1		Ş 45		Atty. Ref. 44921-5090-01-W0/2105485
CEO ID	GLGC ID	GenBank Acc.			
SECTIO	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1			-	Rattus norvegicus Dual Specificity Yak1-related kinase	·
			ĺ	(Dyrk),mRNA 11/22Length =	FCT- dual appellation to the August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August August A
1797	7 18135	NM_012791	e,gg,ll	284	ESTs, dual-specificity tyrosine-(Y)-phosphorylation
	10100	71111_012731	6,99,11	Rattus norvegicus	regulated kinase 1a
				Guanidinoacetate	
İ				methyltransferase	
	}			(Gamt),mRNA. 11/22Length =	
1798	16947	NM_012793	b,u,v,jj,kk	924	Guanidinoacetate methyltransferase
				Rattus norvegicus glutathione S	S-
			1	transferase, theta 2 (Gstt2),	
1799	961	NM_012796	9	mRNA, 9/22Length = 1258	glulathione S-transferase, theta 2
	1				
	l			Rattus norvegicus Inhibitor of	
		}		DNA binding 1, helix-loop-helix	LINE COMMANDE AND A SECOND
1800	10248	NM_012797	b,j,k,s,t,u,jj,kk	protein (splice variation) (ld1), mRNA. 1/22Length = 1124	Inhibitor of DNA binding 1, helix-loop-helix protein
1000	102-10	14101_012131	D,J,R,3,1,U,JJ,RR	Rattus norvegicus Smoothened	(splice variation)
			1	(Smoh), mRNA. 1/22Length =	
1801	20246	NM_012807	l,m,s	2382	Smoothened
				Rattus norvegicus alpha-	
				methylacyl-CoA racemase	
				(Amacr), mRNA. 11/22Length =	
1802	15032	NM_012816	j,k,jj,kk	154	alpha-methylacyl-CoA racemase
	1	1		Rattus norvegicus Annexin III	
1803	21350	NM_012823	: ::	(Lipocortin III) (Anx3),	
1000	21330	INW_012023	lii	mRNA.11/22Length = 1454	Annexin A3
				Rattus norvegicus Cystatin beta	
1804	2853	NM_012838	n,o	(Cstb), mRNA. 11/2Length = 59	Cystatin beta
				Rattus norvegicus Epithelial	- Systatin Beta
				membrane protein 1 (Emp1),	
1805	338	NM_012843	r	mRNA.11/22Length = 981	Epithelial membrane protein 1
				Rattus norvegicus Epoxide	
				hydrolase 1 (microsomal	
1806	17511	NIM 040044	- 4	xenobiotic hydrolase) (Ephx1),	Epoxide hydrolase 1 (microsomal xenobiotic
1000	1/541	NM_012844	c,d	mRNA. 1/22Length = 1242	hydrolase)
		1	į		
1807	1249	NM_012850			Growth hormone - releasing recentor
				Rattus norvegicus Lysosomal	roleability receptor
			ļ	associated membrane protein 1	
	}			(12 kDa) (Lamp1), mRNA.	Lysosomal associated membrane protein 1 (120
1808	18770	NM_012857	hh	11/2Length = 26	kDa)
1000	42454	NINA 040000			
1909	13151	INIVI_U12802	11,0,11		Matrix Gla protein
-		•			
- 1					
1810	4338	NM_012866			CCAAT binding factor of CRE-C/NEV-C
		<del>-</del>		Rattus norvegicus	507 V.T. Dilliumy tactor of ODI "OTNI 1"-O
		-			tumor necrosis factor receptor superfamily, member
1811	24617	NM_012870		11/22Length = 2432	11b (osteoprotegerin)
					· · · · · · · · · · · · · · · · · · ·
	1	İ	ļ	Rattus norvegicus Ribosomal	
1812	600.1	NM_012875		protein L39 (Rpl39), mRNA.	Ribosomal protein L39
1808 1809 1810	1249 18770 13151 4338	NM_012850 NM_012857 NM_012862 NM_012866	u,v hh n,o,il u,v	Raltus norvegicus Growth hormone - releasing receptor (Ghrhr), mRNA. 11/2Length = 1629 Rattus norvegicus Lysosomal associated membrane protein 1 (12 kDa) (Lamp1), mRNA. 11/2Length = 26 Rattus norvegicus Matrix Gla protein (Mgp), mRNA. 11/22Length = 521 Rattus norvegicus nuclear transcription factor-Y gamma (Nfyc),mRNA. 11/22Length = 123 Rattus norvegicus Osteoprotegerin (Opg), mRNA. 11/22Length = 2432	Growth hormone - releasing receptor  Lysosomal associated membrane protein 1 (120 kDa)  Matrix Gla protein  CCAAT binding factor of CBF-C/NFY-C tumor necrosis factor receptor superfamily, membrane

TABLE 1	, i -		14.4		Alty. Ref. 44921-5090-01-WO/2105485
350 10	01.00.15	GenBank Acc.	1000000		
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		:		Rattus norvegicus Ribosomal	
4040	47005			protein S29 (Rps29), mRNA.	
1813	1/305	NM_012876	g,hh	11/22Length = 318	Ribosomal protein S29
			İ	Rattus norvegicus Ribosomal	
1040	47200	NNA 040070	l.	protein S29 (Rps29), mRNA.	
1813	17306	NM_012876	1	11/22Length = 318	Ribosomal protein S29
				Rattus norvegicus secreted	
1814	22654	NINA 042004		phosphoprotein 1 (Spp1),	
1014	23031	NM_012881	h,l,n,o,w,x	mRNA.11/22Length = 1457 Rattus norvegicus	Sialoprotein (osteopontin)
				Thymopoietin (lamina	
				associated polypeptide2)	
				(Tmpo), mRNA. 11/2Length =	
1815	16871	NM_012887	y,ll	(1111), HRNA. 11/2Lengul =	Thursday in the size of a second to the state of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the s
- 1013	10071	14141_012007	y,a	Rattus norvegicus Adenosin	Thymopoietin (lamina associated polypeptide 2)
1				kinase (Adk), mRNA.	
1816	16708	NM_012895	u,v	11/22Length = 1123	Adenosin kinase
		- t		Rattus norvegicus Acid nuclear	Adetiosiii kiilase
	ĺ			phosphoprotein 32 (leucine rich)	
			!	(Anp32), mRNA. 11/2Length =	
1817	187	NM_012903	r	117	Acid nuclear phosphoprotein 32 (leucine rich)
		_ =:		Rattus norvegicus Annexin 1	) I construction of the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the first the fi
]				(p35) (Lipocortin 1) (Anx1),	
1818	7196	NM_012904	a,ii	mRNA.11/22Length = 142	Annexin 1 (p35) (Lipocortin 1)
				Rattus norvegicus Aortic	(F-5)(2-F-5-5-1)
				preferentially expressed gene 1	
		į		(Apeg1), mRNA. 11/22Length =	
1819	1834	NM_012905	đ	138	Aortic preferentially expressed gene 1
j i				Rattus norvegicus Arrestin,	
				beta 2 (Arrb2), mRNA.	
1820	16581	NM_012911	gg	11/22Length = 1758	Arrestin, beta 2
i i	ļ			Rattus norvegicus Activating	
1				transcription factor 3	
4004	04404			(Atf3),mRNA. 11/22Length =	
1821	24431	NM_012912	a,p,q,y,z,ee,ff	1893	Activating transcription factor 3
	.			Rattus norvegicus ATPase,	
				Ca++ transporting,	
1822	24782	NM_012914	kk	ubiquitous(Atp2a3), mRNA. 11/22Length = 4472	ATDees Courtement the call office
1022	24103	1414 1411	NN.	Rattus norvegicus ATPase	ATPase, Ca++ transporting, ubiquitous
		1		inhibitor (rat mitochondrial	
				IF1protein) (Atpi), mRNA.	
1823	6108	NM 012915	С	11/2Length = 833	ATPase inhibitor (rat mitochondrial IF1 protein)
	3,00		-	Rattus norvegicus Calcium	(Tac innotes (rac interested and in a protein)
	1			channel subunit alpha 2	<b>I</b>
	l			delta(dihydropyridine - sensitive	<b>!</b>
	ľ	]		L-type) (Cacna2d1), mRNA.	calcium channel, voltage-dependent, alpha2/delta
1824	1765	NM_012919	u,v	1/22Length = 384	subunit 1
			-	Rattus norvegicus Cyclin G1	
				(Ccng1), mRNA. 11/22Length =	<b>i</b>
1825	20757	NM_012923	cc,dd	3169	Cyclin G1
				Rattus norvegicus Cell surface	
				glycoprotein CD44	
			į	(hyaluronatebinding protein)	
					Cell surface glycoprotein CD44 (hyaluronate binding
1826	1625	NM_012924	99		protein)
		<u></u>		<del></del>	·

TABLE 1			948		Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	CL CC ID	GenBank Acc.			
SEQID	GLGC ID	No.	Model Code		Unigene Sequence Cluster Title
				Rattus norvegicus Camitine	
		1		palmitoyltransferase 2	
1827	1077	NINA 040000	1	(Cpt2),mRNA. 11/22Length =	
102/	1977	NM_012930	a,w,x,cc,dd	2296	Carnitine palmitoyltransferase 2
		-		Rattus norvegicus v-crk-	
				associated tyrosine kinase	
1828	10604	NINA 042024	ļ.,	substrate (Crkas), mRNA.	
1020	10094	NM_012931	j,k,gg	11/22Length = 3335 Rattus norvegicus v-crk-	v-crk-associated tyrosine kinase substrate
				associated tyrosine kinase	
			İ	substrate (Crkas), mRNA.	
1828	18695	NM_012931	j,k,y,z	11/22Length = 3335	work appointed house in his and a last
	10000	14111_012301	J,K,Y,Z	Rattus norvegicus Crystallin,	v-crk-associated tyrosine kinase substrate Crystallin, alpha polypeptide 2, ESTs, ESTs,
				alpha polypeptide 2 (Cryab),	Weakly similar to T46637 transcription factor 1,
1829	13723	NM_012935	aa,bb	mRNA. 11/21Length = 528	neural - rat [R.norvegicus]
			Julius	Rattus norvegicus crystallin,	neural - rat [renorvegicus]
- 1				beta B2 (Crybb2), mRNA.	
1830	487	NM_012937	n	11/22Length = 735	R.norvegicus CRYBB2 gene (crystallin, beta B2)
				7.7.2.2.6.1g.ii. 7.60	Tanorregicus er (r bbz gene (crystallin, beta bz)
i				Rattus norvegicus Cytochrome	
				P45 1b1 (Cyp1b1), mRNA.	
1831	190	NM_012940	j,k	11/2Length = 4964	Cytochrome P450 1b1
				Rattus norvegicus Cytochrom	
ļ				P45 Lanosterol 14 alpha-	
1	Ì			demethylase (Cyp51), mRNA.	
1832	20928	NM_012941	l,m	11/22Length = 226	Cytochrom P450 Lanosterol 14 alpha-demethylase
ľ				Rattus norvegicus Diphtheria	
			1	toxin receptor (heparin binding	İ
-				epidermal growth factor - like	
1833	222	NINA 040045		growth factor) (Dtr), mRNA.	Diphtheria toxin receptor (heparin binding
1033	223	NM_012945	a,p,q,ee,ff	11/2Length = 155	epidermal growth factor - like growth factor)
				Rattus norvegicus Heat shock 1	
1	ŀ			kD protein 1 (chaperonin 1) (Hspe1), mRNA. 11/2Length =	
1834	5033	NM_012966		(1150e 1), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (1172), mr. (11	Heat about 40 LD a satisfact (at a contract 40)
.001	- 0000	1111_012300	3,0	Rattus norvegicus Heat shock 1	Heat shock 10 kD protein 1 (chaperonin 10)
1	1			kD protein 1 (chaperonin 1)	
ŀ	1			(Hspe1), mRNA. 11/2Length =	
1834	5034	NM_012966		68	Heat shock 10 kD protein 1 (chaperonin 10)
				Rattus norvegicus Intercellular	The proton i (onuporonal to)
-				adhesion molecule 1 (lcam1),	
1835	2555	NM_012967		mRNA. 11/2Length = 262	Intercellular adhesion molecule 1
- 1	T			Rattus norvegicus Laminin	
				chain beta 2 (Lamb2), mRNA.	
1836	22434	NM_012974		11/2Length = 5581	Laminin chain beta 2
- 1	1			Rattus norvegicus Laminin	
1000	20425	NA 040074		chain beta 2 (Lamb2), mRNA.	
1836	22435	VM_012974			Laminin chain beta 2
.	1			Rattus norvegicus Lectin,	
				galactose binding, soluble	
1837	056	IM 013076		5(Galectin-5) (Lgals5), mRNA.	
103/	9001	VM_012976	C,V	11/2Length = 872	Lectin, galactose binding, soluble 9 (Galectin-9)
- 1				Rattus norvegicus Lectin,	
				galactose binding, soluble	
1838	057	NM_012977		9(Galectin-9) (Lgals9), mRNA.	
.000	331	****_U12311	<u> </u>	11/2Length = 1545	Lectin, galactose binding, soluble 9 (Galectin-9)

1843	958 571 764 17394	NM_012977  NM_012982  NM_012988  NM_012992	Model Code kk cc,dd ee,ff hh,kk	Rattus norvegicus Lectin, galactose binding, soluble 9(Galectin-9) (Lgals9), mRNA. 11/2Length = 1545 Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 1232 Rattus norvegicus (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4-hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length = 246	Atty. Ref. 44921-5090-01-WO/2105485  Unigene Sequence Cluster Title  Lectin, galactose binding, soluble 9 (Galectin-9)  Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23  Protein disulfide isomerase (Prolyl 4-hydroxylase,
1838 1839 1840 1841 1842	958 571 764 17394	NM_012977  NM_012982  NM_012988  NM_012992	cc,dd ee,ff	Rattus norvegicus Lectin, galactose binding, soluble 9(Galectin-9) (Lgals9), mRNA. 11/2Length = 1545 Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4-hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Lectin, galactose binding, soluble 9 (Galectin-9)  Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1839 1840 1841 1842	571 764 17394 19393	NM_012982 NM_012988 NM_012992	cc,dd ee,ff . hh,kk	galactose binding, soluble 9(Galectin-9) (Lgals9), mRNA. 11/2Length = 1545 Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1839 1840 1841 1842	571 764 17394 19393	NM_012982 NM_012988 NM_012992	cc,dd ee,ff . hh,kk	9(Galectin-9) (Lgals9), mRNA. 11/2Length = 1545 Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1839 1840 1841 1842	571 764 17394 19393	NM_012982 NM_012988 NM_012992	cc,dd ee,ff . hh,kk	11/2Length = 1545 Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1839 1840 1841 1842	571 764 17394 19393	NM_012982 NM_012988 NM_012992	cc,dd ee,ff . hh,kk	Rattus norvegicus Msh (Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Msh (Drosophila) homeo box homolog  Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1841 1842 1843	764 17394 19393	NM_012988 NM_012992 NM_012998	ee,ff . hh,kk	(Drosophila) homeo box homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1841 1842 1843	764 17394 19393	NM_012988 NM_012992 NM_012998	ee,ff . hh,kk	homolog (Msx2),mRNA. 11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1841 1842 1843	764 17394 19393	NM_012988 NM_012992 NM_012998	ee,ff . hh,kk	11/22Length = 42 Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1841 1842 1843	17394	NM_012992 NM_012998	hh,kk	Rattus norvegicus Nuclear Factor IA (Nfia), mRNA. 11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nuclear Factor IA  Nucleoplasmin-related protein (Nuclear protein B23
1841 1842 1843	17394	NM_012992 NM_012998	hh,kk	11/2Length = 3368 Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nucleoplasmin-related protein (Nuclear protein B23
1841	17394	NM_012992 NM_012998	hh,kk	Rattus norvegicus Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Nucleoplasmin-related protein (Nuclear protein B23
1842	19393	NM_012998		Nucleoplasmin-related protein (Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	
1842	19393	NM_012998		(Nuclearprotein B23 (Npm1), mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	
1842	19393	NM_012998		mRNA. 11/2Length = 1232 Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	
1842	19393	NM_012998		Rattus norvegicus Protein disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	
1843			h,l	disulfide isomerase (Prolyl4- hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Protein disulfide isomerase (Prolvl 4-hvdroxylase
1843			h,l	hydroxylase, beta polypeptide) (P4hb), mRNA. 11/2Length =	Protein disulfide isomerase (Prolvl 4-hvdroxylase
1843			h,l	(P4hb), mRNA. 11/2Length =	Protein disulfide isomerase (Protvl 4-hvdroxylase
1843			h,l		
	24263				beta polypeptide)
	24263			Rattus norvegicus Subtilisin -	
	24263		_	like endoprotease (Pace4),	
1843	İ	NM_012999	<u>f</u>	mRNA. 1/21Length = 4153	Subtilisin - like endoprotease
1843				Rattus norvegicus Subtilisin -	
1010	24264	NM_012999	a	like endoprotease (Pace4),	College in the college in
1	2420411	VIVI_012333	g	mRNA. 1/21Length = 4153 Rattus norvegicus	Subtilisin - like endoprotease
1 1	- 1			phosphatidylethanolamine N-	
	1			methyltransferase(Pemt),	
1844	24718	VM_013003	ii	mRNA. 11/22Length = 893	Phosphatidylethanolamine N-methyltransferase
				Rattus norvegicus Protein	
	1			kinase, AMP-activated, gamma	
1845	1467	NM_013010	:	1non-catalytic subunit (Prkga1),	Construction A. A. A. A. A. A. A. A. A. A. A. A. A.
1040	1407 1	4IVI_013010	ił .	mRNA. 11/22Length = 1328 Rattus norvegicus Tyrosine 3-	Protein kinase, AMP-activated, gamma
	1			monooxygenase/tryptophan 5-	
		İ		monooxygenase activation	
		ł		protein, zeta polypeptide	
		.	İ	(Ywhaz), mRNA. 11/22Length =	Tyrosine 3-monooxygenase/tryptophan 5-
1846	25279	NM_013011	p,q	1687	monooxygenase activation protein, zeta polypeptide
				Rattus norvegicus Tyrosine 3-	
		ļ		monooxygenase/tryptophan 5-	
		Ì		monooxygenase activation protein, zeta polypeptide	
		-		(Ywhaz), mRNA. 11/22Length =	Tyrosine 3-monooxygenase/tryptophan 5-
1846	340411	M_013011		1687	monooxygenase activation protein, zeta polypeptide
				Rattus norvegicus Prosaposin	monooxygenase activation protein, zeta porypeptide
.				(sulfated	
				glycoprotein,sphingolipid	1
,	205			hydrolase activator) (Psap),	Prosaposin (sulfated glycoprotein, sphingolipid
1847 2	23545 N	IM_013013	,m		hydrolase activator)
		1			
1848	20178	IM 013014			Donnahia
.070 2	201701		V,A		rersepnin
1					
		j		(Rab3a), mRNA. 11/2Length =	
1849 2	20229 N	IM_013018 k			Ras-related small GTP binding protein 3A
			,m v,x	glycoprotein,sphingolipid hydrolase activator) (Psap), mRNA. 11/2Length = 2175 Rattus norvegicus Persephin (Pspn), mRNA. 11/22Length = 471 Rattus norvegicus Ras-related small GTP binding protein 3A	

TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	GLGC ID	GenBank Acc.	Madel Cade		
SECTION.	GLGC ID	NO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1				Rattus norvegicus RhoA - binding serine/threosine kinase	
l				alpha (ROK - alpha) (Rock2),	RhoA - binding serine/threosine kinase alpha (ROK
1850	1338	NM_013022	r	mRNA. 11/2Length = 447	alpha)
				Rattus norvegicus	
			ŧ	Selenoprotein W muscle 1	
4054	47004	NIM 040007		(Sepw1), mRNA. 7/21Length =	
1851	17894	NM_013027	<u>aa</u>	664 Rattus norvegicus Solute	Selenoprotein W muscle 1
				carrier family 34 (sodium	
				phosphate), member 1	
				(Slc34a1), mRNA. 11/22Length	R.norvegicus ASI mRNA for mammalian equivalent
1852	17174	NM_013030	l,m	= 244	of bacterial large ribosomal subunit protein L22
				Rattus norvegicus Solute	
				саггіег family 34 (sodium phosphate), member 1	
				(Slc34a1), mRNA. 11/22Length	Solute carrier family 17 (sodium/hydrogen
1852	18076	NM_013030	cc,dd	= 244	exchanger), member 2
				Rattus norvegicus ATP-binding	g-y, well-co
				cassette, sub-family C	
				(CFTR/MRP), member 9	
1853	733	NM_013040	i,k	(Abcc9), mRNA. 4/22Length = 6628	ATP-binding cassette, sub-family C (CFTR/MRP), member 9
1000	700	1411_013040	J, N	0020	Inemper 9
				Rattus norvegicus Transforming	
				growth factor beta stimulated	
4054	47404			clone 22 (Tgfb1i4), mRNA.	
1854	1/401	NM_013043	a,p,q,z,ee,ff,kk	11/2Length = 1666 Rattus norvegicus Tryrotropin	Transforming growth factor beta stimulated clone 22
				releasing hormone (Trh),	
1855	11113	NM_013046	l,k,p,q,u,v,gg	mRNA. 11/22Length = 768	Thyrotropin releasing hormone
				Rattus norvegicus Tryrotropin	
4055				releasing hormone (Trh),	
1855	11114	NM_013046	k,n,o,y,z,kk	mRNA. 11/22Length = 768 Rattus norvegicus Coagulation	Thyrotropin releasing hormone
	ł			factor III (thromboplastin,	
				tissuefactor) (F3), mRNA.	
1856	24874	NM_013057	r	11/2Length = 1683	Coagulation factor III (thromboplastin, tissue factor)
	ļ			Rattus norvegicus Inhibitor of	
	1			DNA binding 3, dominant	Inhibitor of DNA binding 3, dominant negative helix-
1857	15253	NM_013058	n,o,s,t	(Id3), mRNA. 11/22Length = 568	loop-helix protein
			.,,,,,,,,	Rattus norvegicus alkaline	noop nous protein
				phosphatase, tissue-	
,	,,,,,			nonspecific(AlpI), mRNA.	
1858	14997	NM_013059	e,ee,ff	11/22Length = 2415	Tissue-nonspecific ALP alkaline phosphatase
				Rattus norvegicus Protein phosphatase 1, catalytic	
·	1			·	Protein phosphatase 1, catalytic subunit, beta
1859	21287	NM_013065		mRNA. 11/22Length = 276	isoform
				Rattus norvegicus CD74	
	ł			antigen (invariant polpypeptide	
				of majorhistocompatibility class	CD74K (investedk
1860	16924	NM_013069		II antigen-associated) (Cd74), mRNA. 11/2Length = 115	CD74 antigen (invariant polpypeptide of major
1000	10324	11VI_U 10008	v,vv,uu	minina. Trztengin = 115	histocompatibility class II antigen-associated)

TABLE 1			, 6		Atty, Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			1	Rattus norvegicus CD74	
				antigen (invariant polpypeptide	
			İ	of majorhistocompatibility class	
		Į		II antigen-associated) (Cd74),	CD74 antigen (invariant polpypeptide of major
1860	16925	NM_013069	c,n,o	mRNA. 11/2Length = 115	histocompatibility class II antigen-associated)
1				Rattus norvegicus CD74	, , , , , , , , , , , , , , , , , , , ,
		į		antigen (invariant polpypeptide	
1 1			i	of majorhistocompatibility class	
			į	Il antigen-associated) (Cd74),	CD74 antigen (invariant polpypeptide of major
1860	16926	NM_013069	c	mRNA. 11/2Length = 115	histocompatibility class II antigen-associated)
] [				Rattus norvegicus CD74	
1 1				antigen (invariant polpypeptide	
}				of majorhistocompatibility class	
			Į	Il antigen-associated) (Cd74),	
1860	25676	NM_013069	c,m	mRNA. 11/2Length = 115	
1		i		Rattus norvegicus Protein-L-	
] [				isoaspartate (D-aspartate) O-	
4004	477404			methyltransferase (Pcmt1),	Protein-L-isoaspartate (D-aspartate) O-
1861	1/181	NM_013073	99	mRNA. 11/22Length = 1658	methyltransferase
				Rattus norvegicus Protein-L-	
1			1	isoaspartate (D-aspartate) O-	
1004	24020	NN 040070	1	methyltransferase (Pcmt1),	Protein-L-isoaspartate (D-aspartate) O-
1861	21830	NM_013073	aa,bb	mRNA. 11/22Length = 1658	methyltransferase
			1	Rattus norvegicus Omithine	
1862	13393	NM_013078	<u> </u>	carbamoyltransferase (Otc),	
1002	13203	14141_013076	b	mRNA. 11/2Length = 1519 Rattus norvegicus syndecan 2	Ornithine carbamoyltransferase
				(Sdc2), mRNA. 11/22Length =	
1863	1529	NM_013082	hh	(3002), mikiya. 1 //22Lengiri =	Durido con love de esta O
1000	1020	1410_010002	1111	Rattus norvegicus Acyl-	Ryudocan/syndecan 2
<b>i</b> i	j			Coenzyme A	
				dehydrogenase,short-branched	
1	1			chain (Acadsb), mRNA.	Acyl-Coenzyme A dehydrogenase, short-branched
1864	20242	NM_013084	gg	11/2Length = 1322	chain
				Rattus norvegicus Urinary	
				plasminogen activator,	
	l			urokinase(Plau), mRNA.	
1865	20878	NM_013085	b	11/2Length = 1454	Urinary plasminogen activator, urokinase
					7,
	ı			Rattus norvegicus CAMP	
			a,j,k,p,q,y,z,ee	responsive element modulator	
1866	357	NM_013086	,ff	(Crem),mRNA. 11/2Length = 67	CAMP responsive element modulator
				Rattus norvegicus CD81	
				antigen (target of	
	1			antiproliferativeantibody 1)	
4.555				(Cd81), mRNA. 11/2Length =	
1867	8899	NM_013087	d,f	133	CD81 antigen (target of antiproliferative antibody 1)
				Datter -	·
. ]				Rattus norvegicus Tumor	
1868	1504	NIM DISON		necrosis factor receptor (Tnfr1),	Tumor necrosis factor receptor superfamily,
1000	19211	NM_013091	a,s,t,ee,ff,jj,kk	mRNA. 11/22Length = 213	member 1a
	ĺ			Rattus norvegicus Hemoglobin,	
1869	1684	NM_013096		alpha 1 (Hba1), mRNA.	Name debie oleko d
1003	1004	1101 0 10000	b,c,v	11/2Length = 556 Rattus norvegicus Hemoglobin,	Hemoglobin, alpha 1
	-		j	alpha 1 (Hba1), mRNA.	
1869	1685	VM_013096			Homoglobin olaha 4
	,,,,,,,,,	010000	~,0,0	- 1/2CEHgui = 000	Hemoglobin, alpha 1

TABLE	- , .	·	· · · · · ·		Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	01.00.15	GenBank Acc			
SEQ ID	GLGCIL	No. 1	Model Code	Known Gene Name	Unigene Sequence Cluster Title
-		] .	İ	Rattus norvegicus Hemoglobin,	
1869	1600	INIM MARION		alpha 1 (Hba1), mRNA.	<b>l.</b>
1009	1000	NM_013096	c	11/2Length = 556	Hemoglobin, alpha 1
1	į		ĺ	Rattus norvegicus Hemoglobin,	
1869	1680	NM_013096	b,c,v	alpha 1 (Hba1), mRNA. 11/2Length = 556	Unmanishin at the 4
1000	1000	14141_013030	D,C,V	Rattus norvegicus Hemoglobin,	Hemoglobin, alpha 1
				alpha 1 (Hba1), mRNA.	
1869	26150	NM_013096	c.v	11/2Length = 556	
			1	Rattus norvegicus Guanine	
				nucleotide binding, protein,	
1				alpha inhibiting polypeptide 3	
				(Gnai3), mRNA. 11/2Length =	Guanine nucleotide binding, protein, alpha inhibiting
1870	19949	NM_013106	l,m	372	polypeptide 3
				Rattus norvegicus ATPase	
				Na+/K+ transporting beta	
4074	00700		].	1polypeptide (Atp1b1), mRNA.	•
1871	23/09	NM_013113	f,g	11/2Length = 2528	ATPase Na+/K+ transporting beta 1 polypeptide
			1	Rattus norvegicus ATPase	
				Na+/K+ transporting beta	
1871	23710	NM_013113	hh	1polypeptide (Atp1b1), mRNA. 11/2Length = 2528	ATD N. //C / // / / / / / / / / / / / / / / /
10/1	20110	14141_013113	1111	Rattus norvegicus Selectin,	ATPase Na+/K+ transporting beta 1 polypeptide
! !				platelet (Selp), mRNA.	
1872	38	NM_013114	aa,bb	11/22Length = 3185	Selectin, platelet
		= :::::::::::::::::::::::::::::::::::::		- Tracesigni 6100	ocicolin, piaiciet
				Rattus norvegicus	
1				Prostaglandin F receptor (Ptgfr),	
1873	7854	NM_013115	h,l	mRNA. 11/22Length = 3	Prostaglandin F receptor
				Rattus norvegicus CD38	
]				antigen (ADP-ribosyl cyclase /	
1				cyclicADP-ribose hydrolase)	
4074	0005	NIA 040407	1	(Cd38), mRNA. 11/2Length =	CD38 antigen (ADP-ribosyl cyclase / cyclic ADP-
1874	2005	NM_013127	e,bb	2248	ribose hydrolase)
			1	Rattus norvegicus	
1875	21840	NM_013128	w,ll	Carboxypeptidase E (Cpe),	O-thermal Leve E
10,3	21040	14141_013120	M,II	mRNA. 11/22Length = 292 Rattus norvegicus Annexin V	Carboxypeptidase E
			ļ	(Anx5), mRNA. 11/22Length =	
1876	16649	NM_013132	c,gg	L	Annexin V
				Rattus norvegicus Meprin 1	, diricxii Y
				alpha (Mep1a), mRNA.	
1877	5837	NM_013143	cc,dd	11/22Length = 2928	Meprin 1 alpha
				Rattus norvegicus 5-	
	1		1	hydroxytryptamine (serotonin)	
4.0			1	receptor 5A (Htr5a), mRNA.	·
1878	786	NM_013148	n,o	11/22Length = 1954	5-hydroxytryptamine (serotonin) receptor 5A
			1	Deltus need to be	
.	-		1	Rattus norvegicus Plasminogen	
1879	16	NM_013151	0.0	activator, tissue (Plat),	Discoules and self-order in
	70		p,q	mRNA.11/22Length = 2445 Rattus norvegicus	Plasminogen activator, tissue
			1	CCAAT/enhancerbinding.	
- 1			j,k,p,q,y,z,gg,k	protein (C/EBP) delta (Cebpd),	
1880	21682	NM_013154	k		CCAAT/enhancerbinding, protein (C/EBP) delta
				Rattus norvegicus	OS VALIGITIAN CERTIFICING, PROTEIN (O/EDF) delta
			ŀ	CCAAT/enhancerbinding,	1
				protein (C/EBP) delta (Cebpd),	1
1880	21683	NM_013154	e,j,k,p,q,y,z,kk		CCAAT/enhancerbinding, protein (C/EBP) delta
				Langur 12	oor vitremanocromaing, protein (O/EDF) delta

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TABLE 1					Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
SECTIO	GLGC ID	IVO.	Model Code	Rattus norvegicus	offidelie Sedrieure Crasiei i ine
			[	Aminolevulinate synthase 2,	
			İ	delta (Alas2), mRNA.	·
1894	16448	NM_013197	b,c,v	, , ,	Aminolevulinate synthase 2, delta
1057	10.10	11111_0 10 101	0,0,4	Rattus norvegicus Dynamin 2	
				(Dnm2), mRNA. 11/22Length =	
1895	1693	NM_013199	99	3463	Dynamin 2
				Rattus norvegicus Carnitine	
Ì				palmitoyltransferase 1, muscle	
				(Cpt1b), mRNA. 11/22Length =	Carnitine palmitoyltransferase 1 beta, muscle
1896	20855	NM_013200	a,w,x,hh	2826	isoform
				Rattus norvegicus Carnitine	
				palmitoyltransferase 1, muscle (Cpt1b), mRNA. 11/22Length =	Carnitine palmitoyltransferase 1 beta, muscle
1896	20056	NIM DISSON	a w y go bb ll	(Cp(1b), mRNA. 17/22Lengur – 12826	isoform
1090	20000	NM_013200	a,w,x,aa,hh,ll	Rattus norvegicus aflatoxin B1	ISOIOIII
1	]		}	aldehyde reductase (Afar),	
1897	20864	NM_013215	b,l,m	mRNA.11/22Length = 1272	aflatoxin B1 aldehyde reductase
			İ	Rattus norvegicus Ras homolog	
				enriched in brain (Rheb),	
1898	23362	NM_013216	e	mRNA.11/2Length = 188	Ras homolog enriched in brain
				Rattus norvegicus afadin (AF-	
1899	20728	NM_013217	cc,dd,ee,ff	6), mRNA. 11/2Length = 5957	afadin
4000	00700	NN 042047		Rattus norvegicus afadin (AF-	ofestio
1899	20729	NM_013217	jj,kk	6), mRNA. 11/2Length = 5957 Rattus norvegicus afadin (AF-	afadin
1899	20731	NM_013217	aa	6), mRNA. 11/2Length = 5957	afadin
1000	20731	14141_013217	99	Rattus norvegicus afadin (AF-	aradin
1899	20732	NM_013217	b,u,v	6), mRNA. 11/2Length = 5957	afadin
		<del></del>		Rattus norvegicus ankyrin-like	
ŀ				repeat protein (Alrp),	
1900	18313	NM_013220	a,kk	mRNA.11/22Length = 1749	cardiac ankyrin repeat protein
1				Rattus norvegicus HMG-box	
				containing protein 1 (Hbp1),	LINIO 1
1901	1495	NM_013221	y,z,aa,bb	mRNA.11/22Length = 2642	HMG-box containing protein 1
1	]			Rattus norvegicus growth factor, erv1 -like (Gfer),	
1902	1396	NM_013222	d	mRNA.11/22Length = 1226	augmenter of liver regeneration
1502	1 ,050	5.0222	<del>-</del>	Rattus norvegicus ribosomal	
				protein S26 (Rps26), mRNA.	
1903	815	NM_013224	g,h,l,w,x	11/22Length = 435	ribosomal protein S26
				Rattus norvegicus ribosomal	
			<u> </u>	protein L32 (Rpl32), mRNA.	
1904	18305	NM_013226	f,h,l,w,x	11/22Length = 465	
1	1			Rattus norvegicus adenylate cyclase activating polypeptide 1	
				(Adcyap1), mRNA. 11/22Length	
1905	17972	NM_016989	l,m	= 2681	adenylate cyclase activating polypeptide 1
1 1000	1	0.0000	-,	Rattus norvegicus adrenergic,	The opposite the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
1		1 .		alpha 1B, receptor	
1			1	(Adra1b),mRNA. 11/22Length =	
1906	64	NM_016991	jj,kk	218	Adrenergic, alpha 1B-, receptor
				Rattus norvegicus arginine	
	0,000	NIA 040000	1	vasopressin (Avp), mRNA.	A selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the selection of the sele
1907	24868	NM_016992	n,o	11/22Length = 62	Arginine vasopressin (Diabetes insipidus)
			1	Rattus norvegicus arginine vasopressin (Avp), mRNA.	
1907	24860	NM_016992	n,o	11/22Length = 62	Arginine vasopressin (Diabetes insipidus)
1907	24005	114W_U1033Z	111,0	Tinzzrengui - Oz	Turdinine rasohiessin (maneres insihians)

TABLE '	1				Atty. Ref. 44921-5090-01-WO/2105485
050 15	01.00.15	GenBank Acc.		· 提通工具 经通货的 由	博名 "女" 计数数 投行 化二十五十二
SECTION.	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	ĺ			Rattus norvegicus	
]				Carboxypeplidase A1	
1908	24254	NIM O4COOO	1_	(pancreatic) (Cpa1),mRNA.	
1900	24334	NM_016998	c	11/2Length = 131	Carboxypeptidase A1 (pancreatic)
				Rattus norvegicus Cytochrome	
				P45, subfamily IVB,	1
1909	20021	NM_016999	s,t	polypeptide1 (Cyp4b1), mRNA. 1/22Length = 192	Cototo DIFO 16 11 11/12
005	20021	NW_010333	5,1	Rattus norvegicus	Cytochrome P450, subfamily IVB, polypeptide 1
				Glyceraldehyde-3-phosphate	
			1	dehydrogenase(Gapd), mRNA.	
1910	8417	NM_017008	aa	11/22Length = 1233	Glyceraldehyde-3-phosphate dehydrogenase
				Rattus norvegicus Glutamate	Ciyochaldenyac-o-phosphale denyarogenase
			l	receptor, ionotropic, N-methyl D	
				aspartate 1 (Grin1), mRNA.	Glutamate receptor, ionotropic, N-methyl D-
1911	24676	NM_017010	aa,bb	3/21Length = 4213	aspartate 1
				Rattus norvegicus Glutathione-	
				S-transferase, mu type 2 (Yb2)	
				(Gstm2), mRNA. 11/2Length =	
1912	21013	NM_017014	b	155	Glutathione-S-transferase, mu type 2 (Yb2)
				Rattus norvegicus	
4040	47045			Glucuronidase, beta (Gusb),	
1913	1/815	NM_017015	W,X	mRNA. 11/22Length = 2472	Glucuronidase, beta
				Rattus norvegicus Interleukin 6	
1914	6500	NM 047000		receptor (II6r), mRNA.	
1914	0090	NM_017020	j,k	11/22Length = 4614	Interleukin 6 receptor
				Rattus norvegicus Lactate dehydrogenase A (Ldha),	
1915	17807	NM_017025	h,l	mRNA. 11/22Length = 169	Lastata dabudananan A
		017020	11,3	Rattus norvegicus	Lactate dehydrogenase A
				Phosphodiesterase 4B, cAMP-	
				specific (dunce (Drosophila)-	
ĺ	İ			homolog phosphodiesterase E4)	
ŀ	i			(Pde4b), mRNA. 4/22Length =	Phosphodiesterase 4B, cAMP-specific (dunce
1916	14247	NM_017031	h,l	3133	(Drosophila)-homolog phosphodiesterase E4)
1	l			Rattus norvegicus peripheral	:
				myelin protein 22 (Pmp22),	
1917	4500	NM_017037	ii	mRNA. 11/22Length = 1816	Peripheral myelin protein
j				Rattus norvegicus Protein	
j		ł		phosphatase 2 (formerly	
1		!		2A),catalytic subunit, alpha	D. I. I. I. I. I. I. I. I. I. I. I. I. I.
1918	3202	NM 017020			Protein phosphatase 2 (formerly 2A), catalytic
1310	3203	NM_017039	С	11/22Length = 184 Rattus norvegicus Protein	subunit, alpha isoform
1	1			phosphatase 2 (formerly	
	j			2A),catalytic subunit, beta	
	l	l		. 11	Protein phosphatase 2 (formerly 2A), catalytic
1919	24597	NM_017040		11/22Length = 1843	subunit, beta isoform
				Rattus norvegicus Solute	Subunit, Deta isoloitii
-		ļ		carrier family 4, member 2,	'
Ī	1	i		anionexchange protein 2	
ļ	1			(Slc4a2), mRNA. 11/2Length =	Solute carrier family 4, member 2, anion exchange
1920	24697	NM_017048	u,v,ii	457	protein 2
	T			Rattus norvegicus Solute	
- 1		-		carrier family 4, member 3,	
- 1		i		anionexchange protein 3	
4001	04005				Solute carrier family 4, member 3, anion exchange
1921	24695	NM_017049	C (;	3877	protein 3

TABLE 1		•	<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	1 1 1 1 1 1		
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus Superoxide	
				dismutase 1, soluble (Sod1),	
1922	20875	NM_017050	hh	mRNA.12/21Length = 65	Superoxide dismutase 1, soluble
				Rattus norvegicus Superoxide	
			1	dismutase 1, soluble (Sod1),	
1922	20876	NM_017050	r	mRNA.12/21Length = 65	Superoxide dismutase 1, soluble
			•	Rattus norvegicus Sorbitol	
1000	4070	NII 047050		dehydrogenase (Sord), mRNA.	
1923	18/6	NM_017052	w,x	11/22Length = 1358	Sorbitol dehydrogenase
				Rattus norvegicus bcl2-	
1924	010	NIM 017050		associated X protein (Bax),	D 10
1924	910	NM_017059	d	mRNA. 11/22Length = 579 Rattus norvegicus bcl2-	Bcl2-associated X protein
				associated X protein (Bax),	
1924	011	NM_017059	d	mRNA. 11/22Length = 579	Roll consists d V sectois
1324		14181_017000		Rattus norvegicus bd2-	Bcl2-associated X protein
				associated X protein (Bax),	
1924	912	NM_017059	d,l,m	mRNA. 11/22Length = 579	Bcl2-associated X protein
			-1,1,	Rattus norvegicus Hras-	Doiz-associated X protein
				revertant gene 17 (Hrev17),	
1925	19549	NM_017060	h,t	mRNA. 1/22Length = 966	ESTs
				Rattus norvegicus lysyl oxidase	
				(Lox), mRNA. 11/22Length =	
1926	1942	NM_017061	f,II	4557	Lysyl oxidase
				Rattus norvegicus lysyl oxidase	
				(Lox), mRNA. 11/22Length =	
1926	1943	NM_017061	s,t	4557	Lysyl oxidase
				Rattus norvegicus Importin beta	
400-	4.40			(Impnb), mRNA. 11/2Length =	
1927	1427	NM_017063	hh	2991	Importin beta
l i	1			Rattus norvegicus Lysosomal-	
1	ŀ			associated membrane protein 2	
1928	6653	NM_017068	d	(Lamp2), mRNA. 11/2Length = 1548	
1320	0000	NW_017000	<u>u</u>	Rattus norvegicus Lysosomal-	Lysosomal-associated membrane protein 2
	1			associated membrane protein 2	
	f			(Lamp2), mRNA. 11/2Length =	
1928	6654	NM_017068	b,v	1548	Lysosomal-associated membrane protein 2
		0 000	-,-	Rattus norvegicus Glutamine	Lysosomal-associated membrane protein 2
				synthetase (glutamate-	
		i		ammonialigase) (Glul), mRNA.	
1929	11152	NM_017073	c,s,t,kk	11/2Length = 2793	Glutamine synthetase (glutamate-ammonia ligase)
				Rattus norvegicus Glutamine	, , , , , , , , , , , , , , , , , , , ,
				synthetase (glutamate-	
	1	ļ		ammonialigase) (Glul), mRNA.	
1929	11153	NM_017073	y,kk	11/2Length = 2793	Glutamine synthetase (glutamate-ammonia ligase)
	T			Rattus norvegicus Acetyl-Co A	
		i		acetyltransferase 1,	
-4000	102-5			mitochondrial (Acat1), mRNA.	
1930	18956	NM_017075	aa	11/2Length = 1715	Acetyl-Co A acetyltransferase 1, mitochondrial
	1			Rattus norvegicus Acetyl-Co A	
	1		j	acetyltransferase 1,	
1020	10057	IM 017076	11	mitochondrial (Acat1), mRNA.	
1930	1090/1	VM_017075	r,s,t,ll	11/2Length = 1715	Acetyl-Co A acetyltransferase 1, mitochondrial
	1	l		Rattus norvegicus Tumor-	
	-	1		associated glycoprotein pE4	
1931	923	NM_017076	# 00 5 N U B	(Tage4), mRNA. 11/2Length = 2171	Tumor accordated alvegnestric = FA
1001	323[1	017070	a,p,q,y,z,ee,ff	4111	Tumor-associated glycoprotein pE4

TABLE 1	·	<del></del>	1	•	Atty. Ref. 44921-5090-01-WO/2105485
V 1		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus CD1D	
			]	antigen (Cd1d), mRNA.	
1932	1523	NM_017079	h,l,n,o,w,x	11/2Length = 1835	CD1D antigen
		-		Rattus norvegicus biglycan	
				(Bgn), mRNA. 11/22Length =	Small proteoglycan I (biglycan), bone (BSPG1)
1933	22552	NM_017087	n,o	2446	(bone/cartilage protectycan 1 precursor)
		1		Rattus norvegicus GDP-	
4024	4200	NIN 047000		dissociation inhibitor 1 (Gdi1),	000 5 15 115
1934	1383	NM_017088	11	mRNA.11/2Length = 139	GDP-dissociation inhibitor 1
				Rattus norvegicus Bruton agammaglobulinemia tyrosine	
ŀ					
1935	23665	NM_017092	u,v	kinase (Tyro3), mRNA. 12/2Length = 3726	Bruton agammaglabulinomia byzasina kinasa
1333	20000	11111_011032	u,v	Rattus norvegicus growth	Bruton agammaglobulinemia tyrosine kinase
	İ			hormone receptor (Ghr), mRNA.	
1936	10886	NM_017094	ii	11/22Length = 295	Growth hormone receptor
				Rattus norvegicus growth	Grown normano reacptor
	j	'		hormone receptor (Ghr), mRNA.	
1936	10887	NM_017094	jj,kk	11/22Length = 295	Growth hormone receptor
			,	Rattus norvegicus growth	
				hormone receptor (Ghr), mRNA.	
1936	10888	NM_017094	e,r,hh	11/22Length = 295	Growth hormone receptor
					·
	- 1			Rattus norvegicus Cathepsin C	
				(dipeptidyl peptidase I)	
1937	2150	NM_017097	a,ll	(Ctsc),mRNA. 11/2Length = 185	Cathepsin C (dipeptidyl peptidase I)
				Rattus norvegicus potassium	
	ļ			inwardly-rectifying channel,	
4000	1554	NIM 047000		subfamily J, member 8 (Kcnj8),	Inwardly rectifying potassium channel gene,
1938	1001/	NM_017099	С	mRNA. 11/22Length = 158	subfamily J-8 (ATP sensitive)
	1	İ		Rattus norvegicus Peptidylprolyl isomerase A	
	j			(cyclophilin A)(Ppia), mRNA.	
1939	4391	NM_017101	s,t	11/22Length = 743	Peptidylprolyl isomerase A (cyclophilin A)
.505	.007	0 17 101	-,,	Rattus norvegicus potassium	- charalibroist isomerase a (charalim a)
	ţ			voltage-gated channel,	
	I	l		subfamily H (eag-related),	
	İ			member 3 (Kcnh3), mRNA.	potassium voltage-gated channel, subfamily H (eag-
1940	15776	NM_017108	u,v	11/22Length = 3715	related), member 3
				Rattus norvegicus granulin	
	ļ	ŀ		(Grn), mRNA. 11/22Length =	
1941	20745	NM_017113	f,g	2113	granulin
	i			Rattus norvegicus granulin	
	007.45			(Gm), mRNA. 11/22Length =	
1941	20746	NM_017113	j,cc,dd,gg	2113	granulin
	1			Rattus norvegicus hippocalcin	
1942	1275	\BA 017490	<b>.</b> .	(Hpca), mRNA. 11/22Length =	
1942	13/3	NM_017122	n,o	1561 Rattus norvegicus CD63	hippocalcin
-				antigen (Cd63), mRNA.	
1943	1435	NM_017125	kk	11/22Length = 86	Cd63 antigen
	.400	017120	•NN	Rattus norvegicus ferredoxin 1	<u> </u>
	}		•	(Fdx1), mRNA. 11/22Length =	
1944	21662	NM_017126	a,ee,ff	838	ferredoxin 1
			-,,	Rattus norvegicus ferredoxin 1	ION GOOMIN 1
	1		a,h,l,p,q,y,z,ee	(Fdx1), mRNA. 11/22Length =	
1944	21663			838	ferredoxin 1
			·		

GenBank Acc.	1-5090-01-WO/2105485
SEQ ID GLGC ID No.   Model Code   Known Gene Name   Unicene Seque	
i i i i i i i i i i i i i i i i i i i	nce Cluster Title
Rattus norvegicus	
neuraminidase 2 (Neu2),	
1945 24522 NM_017130 u,v mRNA. 11/22Length = 166 neuraminidase	2
Rattus norvegicus	
calsequestrin 2 (Casq2), mRNA.	
1946 167 NM_017131 b,e,u,v,ll 11/22Length = 1681 calsequestrin 2	
Rattus norvegicus reticulocalbin	
2 (Rcn2), mRNA. 11/22Length = 219 reticulocalbin 2	
194/ 20916 NM_01/132 d 219 reticulocalbin 2 Rattus norvegicus squalene	
epoxidase (Sqle), mRNA.	
1948 16681 NM_017136 ii   11/22Length = 2199   squalene epoxid	laca
Rattus norvegicus Iaminin	lase
receptor 1 (67kD, ribosomal	•
protein SA) (Lamr1), mRNA.	
1949 24885 NM_017138 h,l,w,x 11/22Length = 118 laminin receptor	. 1
Rattus norvegicus laminin	
receptor 1 (67kD, ribosomal	
protein SA) (Lamr1), mRNA.	
1949 24886 NM_017138 h,I,w,x 11/22Length = 118 laminin receptor	1
Rattus norvegicus dopamine	
receptor D3 (Drd3), mRNA.	·
1950 492 NM_017140 I,m,n,aa 11/22Length = 1481 dopamine recep	tor 3
Rattus norvegicus DNA	
polymerase beta (Polb), mRNA.	į
1951 24106 NM_017141 s,t,bb 11/22Length = 3298 DNA polymerase	e beta
Rattus norvegicus DNA	
polymerase beta (Polb), mRNA.   1951   24107 NM_017141   II   11/22Length = 3298   DNA polymerase	
1951   2410/NM_01/141   II   11/22Length = 3298   DNA polymerase   Rattus norvegicus cofilin 1	e beta
(Cfl1), mRNA. 11/22Length =	
1952 15364 NM_017147 ii 139 cofilin 1, non-mu	ecla
Rattus norvegicus cofilin 1	3GC
(Cfl1), mRNA. 11/22Length =	
1952 15365 NM_017147   aa,bb,ll   139     cofilin 1, non-mu	scle
Rattus norvegicus cysteine rich	
protein 1 (Csrp1), mRNA.	
1953 13392 NM_017148 e 1/22Length = 143 cysteine rich pro	tein 1
Rattus norvegicus	
mesenchyme homeo box 2	·
(Meox2), mRNA. 11/22Length =	
1954 17287 NM_017149 ii 2244 mesenchyme ho	meobox 2
Rattus norvegicus ribosomai protein S15 (Rps15), mRNA.	
4055 40050404 047454	C45
1955 16953 NM_017151 g 11/22Length = 487 ribosomal protein	1010
protein S15 (Rps15), mRNA.	j
1955 16954 NM_017151 gg 11/22Length = 487 ribosomal protein	\$15
Rattus norvegicus ribosomal	1010
protein S15 (Rps15), mRNA.	1
1955 16955 NM_017151   I,m,s,t   11/22Length = 487   ribosomal protein	i S15
Rattus norvegicus xanthine	
d,e,j,k,n,o,y,z, dehydrogenase (Xdh), mRNA.	1
1956 21975 NM_017154 kk 11/22Length = 4198 xanthine dehydro	genase
Rattus norvegicus ribosomal	
protein S6 (Rps6), mRNA.	ĺ
1957 17104 NM_017160 h,l   11/22Length = 81 ribosomal protein	S6

TABLE 1			·		Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
SECUID.	OLOG ID	140.	INIOGO GOGO	Rattus norvegicus ribosomal	3.113
			ļ	protein S6 (Rps6), mRNA.	
1957	17105	NM_017160	h,i	11/22Length = 81	ribosomal protein S6
				Rattus norvegicus ribosomal	
				protein S6 (Rps6), mRNA.	
1957	17106	NM_017160	n,o	11/22Length = 81	ribosomal protein S6
				Rattus norvegicus glutathione	
4050	47000	NIN 047405		peroxidase 4 (Gpx4), mRNA.11/22Length = 872	glutathione peroxidase 4
1958	1/686	NM_017165	hh	Rattus norvegicus stathmin 1	gidiatinone peroxidase 4
				(Stmn1), mRNA. 11/22Length =	Leukemia-associated cytosolic phosphoprotein
1959	20702	NM_017166	j,k,y,z	154	stathmin
1303	20102	1414_0 57 100	13111712	Rattus norvegicus zinc finger	
				protein 36, C3H type-like 1	
				(Zfp36l1), mRNA. 5/22Length =	
1960	20919	NM_017172	а	2741	zinc finger protein 36, C3H type-like 1
				Rattus norvegicus serine (or	
	İ	1	[	cysteine) proteinaseinhibitor,	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
				clade H, member 1 (Serpinh1),	serine proteinase inhibitor, clade H (heat shock
1961	17301	NM_017173	c,f,g,j,k,y,z	mRNA. 11/22Length = 263 Rattus norvegicus	protein 47), member 1
1				phospholipase A2, group 5	
				(Pla2g5), mRNA.11/22Length =	
1962	9378	NM_017174	jj,kk	183	phospholipase A2, group V
1302	30,0	01111	)),,,	Rattus norvegicus T-cell death	
ł				associated gene (Tdag),	
1963	19031	NM_017180	p,q	mRNA.11/22Length = 1353	T-cell death associated gene
1		1		Rattus norvegicus H2A histone	
			1.	family, member Y (H2afy),	LIGA history family, member V
1964	1488	NM_017182	lh	mRNA. 1/22Length = 157 Rattus norvegicus UNC-119	H2A histone family, member Y
İ				homolog (C. elegans)	
ļ	1			(Uncl19),mRNA. 11/22Length =	
196	5 5676	NM_017188	ee,ff	1264	UNC-119 homolog (C. elegans)
100	1-00.0		1	Rattus norvegicus signal	
1		1		sequence receptor 4 (Ssr4),	
1966	6 9124	NM_017199	h,I,hh	mRNA.11/22Length = 757	signal sequence receptor, delta
			}	Rattus norvegicus S-	
1	1	İ		adenosylhomocysteine	
		047004		hydrolase (Ahcy),mRNA.	S-adenosylhomocysteine hydrolase
196	7 20779	NM_017201	b,l,m	11/22Length = 229  Rattus norvegicus cytochrome	o-aucilosymoniocysteme nyurolase
		1		c oxidase, subunit 4a (Cox4a),	
196	8 1469	4 NM_017202	aa	mRNA. 11/22Length = 696	cytochrome c oxidase, subunit IVa
130	1,700		1	Rattus norvegicus solute carrie	
		1		family 6, member 6	
1				(Slc6a6),mRNA. 11/22Length =	
196	9 2485	9 NM_017206	h,l	2489	Solute carrier 6 ,member 6 (taurine transporter)
<u> </u>			1	Rattus norvegicus microtubule-	·
1				associated protein tau	
1 40-	4000	O NIM 047040	ii bele	(Mapt),mRNA. 11/22Length = 524	microtubule-associated protein tau
197	U 1393	8 NM_017212	jj,kk	Rattus norvegicus microtubule-	
1		1		associated protein tau	
	1			(Mapt),mRNA. 11/22Length =	
197	0 1394	0 NM_017212	а	524	microtubule-associated protein tau
		1=:1	<del></del>	_ <del></del>	

TABLE 1	·		\$4. 7 7	: : •	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ.ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Dathus papusaiaus 6 augustus	
}				Rattus norvegicus 6-pyruvoyl-	
1071	1507	NIM 047000	aa #	tetrahydropterin synthase (Pts),	6 numeroul totrobudroptorio punikasa
1971	1321	NM_017220	ee,ff	mRNA. 11/22Length = 1176	6-pyruvoyl-tetrahydropterin synthase
				Rattus norvegicus 6-pyruvoyl-	
ľ				tetrahydropterin synthase (Pts),	
1971	20632	NM_017220	aa,bb	mRNA. 11/22Length = 1176	ESTs
1011		· ···· • · · · _ · · · ·			
				Rattus norvegicus 6-pyruvoyl-	
				tetrahydropterin synthase (Pts),	
1971	19928	NM_017220	i,m	mRNA. 11/22Length = 1176	ESTs
				Rattus norvegicus solute carrier	
				family 1, member 2 (Slc1a2),	
1972	11989	NM_017222	hh	mRNA. 11/22Length = 4269	ESTs
				Rattus norvegicus solute carrier	
				family 1, member 2 (Slc1a2),	
1972	19067	NM_017222		mRNA. 11/22Length = 4269	ESTs
1972	10307	14141_011222		Rattus norvegicus solute carrier	2318
1				family 22 (organic anion	
				transporter), member 6	
					solute carrier family 22 (organic anion transporter),
1973	1510	NM_017224	ii	2227	member 6
				Rattus norvegicus peptidyl	
·				arginine deiminase, type 2	ESTs, Highly similar to RS18_HUMAN 40S
<u> </u>				(Pdi2),mRNA. 11/22Length =	ribosomal protein S18 (KE-3) (KE3) [R.norvegicus],
1974	15108	NM_017226	u,v	457	peptidyl arginine deiminase, type II
				Rattus norvegicus peptidyl	
!	İ			arginine deiminase, type 2	·
				(Pdi2),mRNA. 11/22Length =	
1974	18148	NM_017226	n,o	457 Rattus norvegicus	peptidyl arginine deiminase, type II
1				phosphatidylinositol transfer	
				protein (Pitpn), mRNA.	
1975	24598	NM_017231	hh	11/22Length = 1638	phosphatidylinositol transfer protein
13/3	24000	7.1VI_U17.ZU1	141	Rattus norvegicus	prospiration in action of protein
				prostaglandin-endoperoxide	
i	İ			synthase 2 (Ptgs2), mRNA.	
1976	20193	NM_017232	p,q	11/22Length = 444	prostaglandin-endoperoxide synthase 2
				Rattus norvegicus	
				phosphatidylethanolamine	
		,		binding protein (Pbp), mRNA.	
1977	15598	NM_017236	ii	11/22Length = 175	phosphatidylethanolamine binding protein
	1			Rattus norvegicus myosin	
			l	heavy chain, polypeptide 6	
4070	4400	NINA 047020	]_	(Myh6),mRNA. 11/22Length =	myosin heavy chain, polypeptide 6, cardiac muscle,
1978	1498	NM_017239	d	593 Rattus norvegicus myosin	alpha .
			<u> </u>	heavy chain, polypeptide 6	
	1			(Myh6),mRNA. 11/22Length =	myosin heavy chain, polypeptide 6, cardiac muscle,
1978	1497	NM_017239	d	(Myno), micha. 17/22Lengur -	alpha
	1-101	011200	<u> </u>	Rattus norvegicus myosin	- Company
1	1		1	heavy chain, polypeptide 7	
1			1	(Myh7),mRNA. 11/22Length =	
1979	20482	NM_017240	c,g	5925	myosin heavy chain, cardiac muscle, fetal
			1 · · · · · · · · · · · · · · · · · · ·	<del></del>	1/

TABLE 1	i i	:		N. J. S. E.	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc:		医生物 医牙髓性病 经营业	
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			1	Rattus norvegicus myosin	
			1	heavy chain, polypeptide 7	
			ł	(Myh7),mRNA. 11/22Length =	
1979	20483	NM_017240	d	5925	myosin heavy chain, cardiac muscle, fetal
				Rattus norvegicus myosin	
				heavy chain, polypeptide 7	
				(Myh7),mRNA. 11/22Length =	
1979	20484	NM_017240	е	5925	myosin heavy chain, cardiac muscle, fetal
				Rattus norvegicus myosin	
				heavy chain, polypeptide 7	
				(Myh7),mRNA. 11/22Length =	
1979	3780	NM_017240	c,g	5925	EST
				Rattus norvegicus eukaryotic	
				translation elongation factor	·
				2(Eef2), mRNA. 11/22Length =	
1980	17561	NM_017245	l,m	2626	eukaryotic translation elongation factor 2
				Rattus norvegicus eukaryotic	
1				translation elongation factor	
				2(Eef2), mRNA. 11/22Length =	
1980	17563	NM_017245	h,l	2626	eukaryotic translation elongation factor 2
				Rattus norvegicus	
				heterogeneous nuclear	
				ribonucleoprotein A1(Hnrpa1),	
1981	17501	NM_017248	i,m	mRNA. 11/22Length = 1696	heterogeneous nuclear ribonucleoprotein A1
				Rattus norvegicus	
				heterogeneous nuclear	
				ribonucleoprotein A1(Hnrpa1),	
1981	17502	NM_017248	l,m	mRNA. 11/22Length = 1696	heterogeneous nuclear ribonucleoprotein A1
				Rattus norvegicus POU	
				domain, class 3, transcription	
]				factor 4(Pou3f4), mRNA.	
1982	16601	NM_017252	s,t	11/22Length = 125	POU domain, class 3, transcription factor 4
	!			Rattus norvegicus purinergic	
	1			receptor P2Y, G-protein coupled	
				2 (P2ry2), mRNA. 11/22Length	
1983	1496	NM_017255	aa,bb	= 211	purinergic receptor P2Y, G-protein coupled 2
				Rattus norvegicus B-cell	
				translocation gene 1 (Btg1),	
1984	19	NM_017258	p,q	mRNA.11/22Length = 1464	B-cell translocation gene 1, anti-proliferative
				Rattus norvegicus B-cell	
				translocation gene 2 (Btg2),	
1985	15300	NM_017259	p,q,kk	mRNA.11/22Length = 2519	Early induced gene, B-cell translocation gene 2
	į			Rattus norvegicus B-cell	
				translocation gene 2 (Btg2),	
1985	15301	NM_017259	j,k,p,q,y,z,gg	mRNA.11/22Length = 2519	Early induced gene, B-cell translocation gene 2
				Rattus norvegicus B-cell	
				translocation gene 2 (Btg2),	
1985	15299	NM_017259	y,z	mRNA.11/22Length = 2519	Early induced gene, B-cell translocation gene 2
.		Į		Rattus norvegicus arachidonate	
				5-lipoxygenase activating	
1				protein (Alox5ap), mRNA.	
1986	7593	NM_017260	w,x	11/22Length = 54	Arachidonate 5-lipoxygenase activating protein
	1			Rattus norvegicus arachidonate	
	1			5-lipoxygenase activating	
ا ممما				protein (Alox5ap), mRNA.	
1986	/594	NM_017260	w,x,ii	11/22Length = 54	Arachidonate 5-lipoxygenase activating protein

TABLE 1			s 12 - 55 j	13	Atty. Ref. 44921-5090-01-WO/2105485
050 ID	21.22.12	GenBank Acc.		F. W.	J. Property of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the
SEQ (D.	GLGC ID	No.	Model Code	1	Unigene Sequence Cluster Title
				Rattus norvegicus 3-hydroxy-3	
			İ	methylglutaryl-Coenzyme	
4007	20000	NA 047000	<b>.</b> .	Asynthase 1 (Hmgcs1), mRNA.	
1987	20600	NM_017268	ļii	11/22Length = 3275	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
1			İ	Rattus norvegicus 3-hydroxy-3-	-
				methylglutaryl-Coenzyme	
1987	20601	NM_017268	-	Asynthase 1 (Hmgcs1), mRNA. 11/22Length = 3275	
1007	20001	NW_017200	<u>'</u>	Rattus norvegicus aldehyde	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
				dehydrogenase family 1,	
				subfamily A4 (Aldh1a4), mRNA.	
1988	20913	NM_017272	n,o	11/22Length = 224	aldehyde dehydrogenase family 1, subfamily A4
				Rattus norvegicus glycerol-3-	alderiyde deriydrogeriase farfilly 1, sublaffilly A4
				phosphate	1
1	İ			acyltransferase, mitochondrial	
				(Gpam), mRNA. 11/22Length =	
1989	20281	NM_017274	gg	2646	glycerol-3-phosphate acyltransferase, mitochondrial
				Rattus norvegicus adaptor	3.7 solioi o pricopriate doynanoicidos, mitocrionariai
				protein complex AP-1, beta 1	1
				subunit (Ap1b1), mRNA.	
1990	17959	NM_017277	s,t	11/22Length = 3679	Adaptor protein complex AP-1, beta 1 subunit
1 1				Rattus norvegicus proteasome	
]				(prosome, macropain) subunit,	
				alpha type 1 (Psma1), mRNA.	proteasome (prosome, macropain) subunit, alpha
1991	15142	NM_017278	l,m	11/22Length = 1174	type 1
	Ì			Rattus norvegicus proteasome	
				(prosome, macropain) subunit,	
4000				alpha type 6 (Psma6), mRNA.	proteasome (prosome, macropain) subunit, alpha
1992	15538	NM_017283	Г	11/22Length = 932	type 6
		i		Rattus norvegicus sodium	
				channel, voltage-gated, type 1,	
1993	20570	NIM 047200		beta polypeptide (Scn1b),	sodium channel, voltage-gated, type I, beta
1993	_ 203791	NM_017288	aa,bb	mRNA. 11/22Length = 149	polypeptide
			Ì	Rattus norvegicus ATPase,	
1 1	1			Ca++ transporting, cardiac muscle,slow twitch 2 (Atp2a2),	ATD Countries (5 )
1994	12347	NM_017290		mRNA. 11/22Length = 5648	ATPase, Ca++ transporting, cardiac muscle, slow
	- 12011	077230		Rattus norvegicus ATPase,	twitch 2
				Ca++ transporting, cardiac	
	i				ATPase, Ca++ transporting, cardiac muscle, slow
1994	12349	NM_017290		mRNA. 11/22Length = 5648	twitch 2
				Rattus norvegicus potassium	(WIGH 2
	ļ	1		nwardly-rectifying channel,	
					potassium inwardly-rectifying channel, subfamily J,
1995	82 1	VM_017297		mRNA. 1/22Length = 3156	member 5
		•			
		Ī		Rattus norvegicus solute carrier	1
		l			solute carrier family 19 (sodium/hydrogen
1996	23825	NM_017299	cc,dd i	mRNA. 11/22Length = 242	exchanger), member 1
				Rattus norvegicus potassium	
		İ		oltage gated channel,	
		İ		shakerrelated subfamily, beta	}
400-	4000		E .		potassium voltage gated channel, shaker related
1997	1028 1	M_017304 i		11/22Length = 17	subfamily, beta member 2
	1			Rattus norvegicus Glutamate-	
	1			cysteine ligase (gamma-	<b>!</b>
1				plutamylcysteine synthetase),	į.
1998	14004	IM_017305 a		egulatory (Gldr), mRNA.	<u> </u>
1990	14004[]	uw_U1/305 ]a	aa,bb 1	11/22Length = 1382	glutamate-cysteine ligase, modifier subunit

TABLE 1	l.	1A 6		1966 1978 -	Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC IE	GenBank Acc. No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		<del> </del>		Rattus norvegicus dodecenoyl-	
				coenzyme A delta isomerase	Rat mRNA for delta3, delta2-enoyl-CoA isomerase,
4000	4000	7 047000	l	(Dci), mRNA. 11/22Length =	dodecenoyl-Coenzyme A delta isomerase (3,2 trans
1999	18087	NM_017306	hh	987 Rattus norvegicus ATP	enoyl-Coenyme A isomerase)
			1	synthase, H+	
}				transporting, mitochondrial F	
1				complex, subunit c, isoform 1	
				(Atp5g1), mRNA. 11/22Length =	
2000	16844	NM_017311	n,o	561	complex, subunit c (subunit 9), isoform 1
			1	Rattus norvegicus sodium- coupled ascorbic acid	
		1		transporter 1 (SVCT1), mRNA.	
2001	1904	NM_017315	u,v	11/2Length = 2472	Rat VL30 element mRNA
				Rattus norvegicus cathepsin S	
2000	4004		l	(Ctss), mRNA. 8/22Length =	
2002	1894	NM_017320	b,I,m,kk	133 Rattus norvegicus	cathepsin S
		l		phosphoglycerate mutase 2	
				(Pgam2), mRNA. 11/22Length =	
2003	24533	NM_017328	n,o	798	Phosphoglycerate mutase 2
				Rattus norvegicus fatty acid	
2004	24240	NM_017332		synthase (Fasn), mRNA.	
2004	24240	NIVI_017332	e,gg	11/22Length = 9136   Rattus norvegicus CAMP	fatty acid synthase
				responsive element modulator	
]			a,j,k,p,q,y,z,ee		
2005	355	NM_017334	,ff	436	CAMP responsive element modulator
1				Rattus norvegicus CAMP	
				responsive element modulator (Crem),mRNA. 1/22Length =	
2005	356	NM_017334	a,j,k,p,q,kk	436	CAMP responsive element modulator
					or min responsive cionicia medicador
1 1				Rattus norvegicus myosin	
2006	16383	NM_017343	cc,dd	regulatory light chain (MRLCB),	
2000	10302	14M_017343	cc,uu	mRNA. 6/21Length = 1139	myosin regulatory light chain
				Rattus norvegicus myosin	
				regulatory light chain (MRLCB),	
2006	20848	NM_017343	bb,hh,jj,kk	mRNA. 6/21Length = 1139	Rat mRNA for myosin regulatory light chain (RLC)
				Pattus nonvarious	
		j		Rattus norvegicus myosin regulatory light chain (MRLCB),	
2006	20849	NM_017343	99		Rat mRNA for myosin regulatory light chain (RLC)
				Rattus norvegicus glycogen	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
				synthase kinase 3 alpha	
2007	17782	NM_017344		(Gsk3a), mRNA. 11/22Length = 2155	diverse surffice bisses 0. 1.
2001	.,,,,,,	1-11/044	-	Rattus norvegicus mitogen	glycogen synthase kinase 3 alpha
·	1			activated protein kinase 3	
				(Mapk3), mRNA. 11/22Length =	
2008	15037	NM_017347	e,r	1238	mitogen activated protein kinase 3
	1			Rattus norvegicus choline transporter (CHOT1), mRNA.	
2009	468	NM_017348			choline transporter
				Rattus norvegicus neural visinin	onomic nanoporter
	ŀ			like Ca2+binding protein type3	
2010	24420	NIM 047350		(NVP-3), mRNA. 11/2Length =	
2010	24428	NM_017356	l	115	neural visinin-like Ca2+-binding protein type 3

TABLE 1				y 1 74 2 2 2 2	Atty. Ref. 44921-5090-01-WO/2105485
oco in	di co in	GenBank Acc.			
SEQ ID.	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus neural visinin	
			1	like Ca2+-binding protein type2	
	47000	NIM 047057		(NVP-2), mRNA. 11/2Length =	
2011	1/202	NM_017357	99	663	neural visinin-like Ca2+-binding protein type 2
			1	Rattus norvegicus ras-related	
2012	20/17	NM_017359	h,i,hh	protein rab1 (Rab1), mRNA. 11/2Length = 991	Issa related protein sah10
2012	20417	14IN_017308	114,15,1111	Rattus norvegicus Pancreas	ras-related protein rab10
				zinc finger protein, see	
	ĺ '		1	alsoD1Bda1\2 (Znf146), mRNA.	
2013	20232	NM_017364	u,v	5/22Length = 1578	Pancreas zinc finger protein, see also D1Bda10\2
			,	Rattus norvegicus PDZ and LIM	and angor protoning dod also by ibaca for
				domain 1 (Pdlim1),	
2014	1581	NM_017365	l,p,q,s,t	mRNA.11/22Length = 1392	PDZ and LIM domain 1 (elfin)
				Rattus norvegicus	3
				Synaptotagmin 3 (Syt3), mRNA.	
2015	20536	NM_019122	b,l,m,u,v	11/22Length = 296	Synaptotagmin 3
				Rattus norvegicus rabaptin 5	
0040	00770	NINA 040404		(LOC5419), mRNA.	
2016	20//8	NM_019124	<u> </u>	11/22Length = 3465	rabaptin 5
]				Rattus norvegicus Interferon, beta 1, fibroblast (Ifnb1), mRNA.	
2017	20318	NM_019127	n 0	11/22Length = 555	Interferen hete 1 fibrableet
2017	20010	14W_U1012/	n,o	Rattus norvegicus tropomyosin	Interferon, beta 1, fibroblast
				1, alpha (Tpm1), mRNA.	
2018	455	NM_019131	b,u,v	11/22Length = 14	Tropomyosin 1 (alpha)
			y y -	Rattus norvegicus tropomyosin	psjoon i (apia)
				1, alpha (Tpm1), mRNA.	
2018	461	NM_019131	b,i,m	11/22Length = 14	Tropomyosin 1 (alpha)
				Rattus norvegicus Guanine	
[ [				nucleotide-binding protein G-s,	
				alphasubunit, Genbank no	
6046	4507-	NN 046466		U51565 (Gnas), mRNA.	Guanine nucleotide-binding protein G-s, alpha
2019	159/5	NM_019132	ii	11/22Length = 1738	subunit
				Rattus norvegicus early growth	Tine finger transposintian for the NOTI C / and
2020	16227	NM_019137	I,m	response 4 (Egr4), mRNA. 11/22Length = 2145	Zinc-finger transcription factor NGFI-C (early
2020	10227	14141_013131	1,111	Rattus norvegicus protein	response gene)
				tyrosine phosphatase, receptor	
				type, D (Ptprd), mRNA.	
2021	14973	NM_019140	aa		Protein tyrosine phosphatase, receptor type, D
		-		Rattus norvegicus Fibronectin 1	,
				(Fn1), mRNA. 11/22Length =	
2022	5618	NM_019143	s,t		Fibronectin 1
Ī				Rattus norvegicus Fibronectin 1	
6555				(Fn1), mRNA. 11/22Length =	
2022	5622	NM_019143	n,o		Fibronectin 1
				Rattus norvegicus urocortin	
2023	070	NIM 040450	aa bb	(Ucn), mRNA. 11/22Length =	
2023	210	NM_019150	aa,bb	579 Rattus norvegicus calpain 1	urocortin
				(Capn1), mRNA. 11/22Length =	
2024	20863	NM_019152	cc,dd		calpain 1
	20000	010102	20,00	Rattus norvegicus fibulin 5	Salpailt I
			:	(Fbln5), mRNA. 11/22Length =	
2025	6451	NM_019153	f,g	· ·	fibulin 5
				Rattus norvegicus vitronectin	
	İ			(Vtn), mRNA. 11/22Length =	
. 2026	24362	NM_019156	jj,kk	1588	vitronectin
				· · · · · · · · · · · · · · · · · · ·	······································

TABLE 1	Ī.			4.	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQTID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus synaptogyrin	
				1 (Syngr1), mRNA. 11/22Length	
2027	20440	NM_019166	b,i,m	= 879	synaptogyrin 1
				Rattus norvegicus synuclein,	
			1	alpha (Snca), mRNA.	
2028	7486	NM_019169	n,o	11/22Length = 118	synuclein, alpha
				Rattus norvegicus carbonyl	
			1	reductase 1 (Cbr1), mRNA.	
2029	17063	NM_019170	f,g	11/22Length = 118	carbonyl reductase 1
				Rattus norvegicus carbonyl	
		•		reductase 1 (Cbr1), mRNA.	
2029	17064	NM_019170	f,g	11/22Length = 118	carbonyl reductase 1
				Rattus norvegicus carbonyl	
				reductase 1 (Cbr1), mRNA.	
2029	17066	NM_019170	g	11/22Length = 118	carbonyl reductase 1
				Rattus norvegicus Cytochrome	
				P45, subfamily IIC (mephenytoin	
				4-hydroxylase) (Cyp2c), mRNA.	Cytochrome P450, subfamily IIC (mephenytoin 4-
2030	1174	NM_019184	c	11/22Length = 1856	hydroxylase)
				Rattus norvegicus GATA-	,
				binding protein 6 (Gata6),	
2031	23481	NM_019185	aa,bb	mRNA. 3/21Length = 1844	GATA-binding protein 6
				Rattus norvegicus ADP-	
			ĺ	ribosylation-like 4 (Arl4), mRNA.	
2032	24019	NM_019186	j,k	11/22Length = 167	ADP-ribosylation-like 4
				Rattus norvegicus MAD	
				homolog 2 (Drosophila)	
				(Madh2), mRNA. 11/22Length =	
2033	15244	NM_019191	11		MAD homolog 2 (Drosophila)
		·		Rattus norvegicus multiple PDZ	
				domain protein (Mpdz),	
2034	21421	NM_019196	II	mRNA.11/22Length = 7516	multiple PDZ domain protein
				Rattus norvegicus C-terminal	
				binding protein 1 (Ctbp1),	
2035	18572	NM_019201	n,o	mRNA. 11/22Length = 243	C-terminal binding protein 1
				Rattus norvegicus C-terminal	
				binding protein 1 (Ctbp1),	
2035	18573	NM_019201	f,g	mRNA. 11/22Length = 243	C-terminal binding protein 1
	. 1			Rattus norvegicus multiple	
			1	endocrine neoplasia 1 (Men1),	
2036	21508	NM_019208	ii		multiple endocrine neoplasia 1
	1		1	Rattus norvegicus actin alpha 1	
				(Acta1), mRNA. 1/22Length =	
2037	18569	NM_019212	f,w,x,hh	1134	actin, alpha 1, skeletal muscle
ļ	ì		ŀ	Rattus norvegicus jumping	
				translocation breakpoint (Jtb),	
2038	2632	NM_019213	cc,dd	mRNA. 11/22Length = 897	jumping translocation breakpoint
· .	}				
		ł		Rattus norvegicus amino-	
				terminal enhancer of split (Aes),	
2039	2079	NM_019220			amino-terminal enhancer of split
	ļ			Rattus norvegicus coronin,	
- 1	l	i		actin-binding protein,	
				1B(Coro1b), mRNA.	
2040	15347	NM_019222	11	11/22Length = 18	coronin, actin binding protein 1B

TABLE 1	<u> </u>	ş. t	1 4. 14. 14. 14. 14. 14. 14. 14. 14. 14.		Atty. Ref. 44921-5090-01-WO/2105485
CEC III	CLCC	GenBank Acc.			· [18] [18] [18] [18] [18] [18] [18] [18]
SEGID	GLGC ID	NO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1.				Rattus norvegicus NADH	
ľ	ļ			dehydrogenase Fe-S protein 6	
2044	20000	11114 040000	1.	(Ndufs6),mRNA. 11/22Length =	l e
2041	20938	NM_019223	hh	351	NADH dehydrogenase Fe-S protein 6
				Rattus norvegicus	
İ			1	serum/glucocorticoid regulated	
2042	20.422		1	kinase (Sgk), mRNA.	•
2042	20433	NM_019232	p,q,kk	11/22Length = 2435	serum/glucocorticoid regulated kinase
				Rattus norvegicus procollagen	
				C-proteinase enhancer	
2042	45500	NIM 040007		protein(Pcolce), mRNA.	
2043	15503	NM_019237	n,o	11/22Length = 1547	procollagen C-proteinase enhancer protein
1		ļ		Rattus norvegicus interferon-	
1		1	l	related developmental regulator	
2044	17000	NINA O40040	1	1 (Ifrd1), mRNA. 5/22Length =	
2044	17908	NM_019242	,ff	1736	interferon-related developmental regulator 1
			ľ	Rattus norvegicus	
				prostaglandin F2 receptor	
2045	21100	NIM 040040		negativeregulator (Ptgfrn),	,
2045	21108	NM_019243	I	mRNA. 11/22Length = 5825	prostaglandin F2 receptor negative regulator
i			]	Rattus norvegicus paired-like	
				homeodomain transcription	
2040	44040	NB4 040047	1,	factor 3 (Pitx3), mRNA.	
2046	11218	NM_019247	b,u,v	11/22Length = 1253	paired-like homeodomain transcription factor 3
				Rattus norvegicus neural	·
				receptor protein-tyrosine kinase	
2047	24940	NR4 040040		(Ntrk3), mRNA. 11/22Length =	
2047	24649	NM_019248	aa,bb	2682	neurotrophic tyrosine kinase, receptor, type 3
				Rattus norvegicus ral guanine	
				nucleotide dissociationstimulator	
2048	18761	NIM O10050	.	(Ralgds), mRNA. 11/22Length =	
2040	10/01	NM_019250	aa	3665	ral guanine nucleotide dissociation stimulator
i	1			Rattus norvegicus splicing	
- 1	Į			factor, arginine/serine-rich 5	
2049	23/10	NM_019257		(Sfrs5), mRNA. 11/22Length =	
2043	20419	101201		2781 Rattus norvegicus complement	splicing factor, arginine/serine-rich 5 (SRp40, HRS)
1					
-	I			component 1, q subcomponent,	
2050	21443	NM_019262	kk,li	betapolypeptide (C1qb), mRNA.	complement component 1, q subcomponent, beta
2000	۲۱۳۰۵	1111_013202	VIV ³ II	11/22Length = 1136 Rattus norvegicus complement	polypeptide
		}			
	j			component 1, q subcomponent,	
2050	21444	NM_019262		betapolypeptide (C1qb), mRNA.	complement component 1, q subcomponent, beta
2000	21794	11N_0 10Z0Z	II) AV	11/22Length = 1136 Rattus norvegicus gap junction	polypeptide
			i,	membrane channel protein	
	- 1	j		alpha 5(Gja5), mRNA.	gon inaction membrane above the 100 to 100 m
2051	1143	VM_019280	1	11/22Length = 3115	gap junction membrane channel protein alpha 5
		0.0200		Rattus norvegicus solute carrier	(connexin 40)
٠	1	ļ		family 3, member 2	
					colute corrier family 2 (noticetars of difference of
2052	20734	NM_019283			solute carrier family 3 (activators of dibasic and
		0 10200		Rattus norvegicus solute carrier	neutral amino acid transport), member 2
]	- 1	1		amily 3, member 2	<b> </b>
	- 1			المناها المناسبة المناسبة المناسبة	actule corrier family 2 (==th-=t=== C Pl
2052	20735	VM_019283		ا	solute carrier family 3 (activators of dibasic and
		0.0200		Rattus norvegicus adenytyt	neutral amino acid transport), member 2
- 1		1		cyclase 4 (Adcy4), mRNA.	1
2053	8200	NM_019285			Adopulul gualago 4
			<u>L</u>	112 - 2007	Adenylyl cyclase 4

TABLE 1	:			4.1	Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	CI CC ID	GenBank Acc.	obo Steller	Known Cono Namo	Unigene Sequence Cluster Title
SEQID	GLGC ID	No:	Model Code		Unidene Sequence Cluster Title
				Rattus norvegicus Actin-related protein complex 1b	
				(Arpc1b),mRNA. 11/2Length =	
2054	10015	NM_019289	n,o,jj,kk,ll		Actin-related protein complex 1b
2004	10013	14W_013203	11,0,33,00,0	Rattus norvegicus Actin-related	/ Cult related present complex to
			'	protein complex 1b	
				(Arpc1b),mRNA. 11/2Length =	
2054	10016	NM_019289	a,o,jj,kk,ll		Actin-related protein complex 1b
				Rattus norvegicus B-cell	
	:			translocation gene 3 (Btg3),	
2055	23679	NM_019290	p,q		B-cell translocation gene 3
,				Rattus norvegicus carbonic	
	45050	040004		anhydrase 2 (Ca2), mRNA.	and ania anhydrana 2
2056	15056	NM_019291	b,c	11/22Length = 1459 Rattus norvegicus clathrin,	carbonic anhydrase 2
l '	•			heavy polypeptide (Hc)	
İ				(Citc),mRNA. 11/22Length =	
2057	17507	NM_019299	f,g	671	clathrin, heavy polypeptide (Hc)
2007	17001	14W_010200	119	Rattus norvegicus nuclear	
			-	receptor subfamily 4, group A,	
į			•	member 2 (Nr4a2), mRNA.	
2058	24674	NM_019328	j,k	11/22Length = 22	nuclear receptor subfamily 4, group A, member 2
				Rattus norvegicus Proprotein	
				convertase subtilisin/kexin type	
1	1			3 (paired basic amino acid	
				cleaving enzyme, furin,	
1			İ	membrane associated receptor protein) (Pcsk3), mRNA.	
2059	16220	NM_019331	h,I,II	1/22Length = 4259	Paired basic amino acid cleaving enzyme (furin)
2009	10330	14141_019331	11,1,11	1722Cengur - 4233	t aired basic diffine acid creating enzyme (term)
İ				Rattus norvegicus6-	
1	ł	1		phosphofructo-2-kinase/fructose-	
1	ŀ		:	2,6-biphosphatase 4 (Pfkfb4),	6-phosphofructo-2-kinase/fructose-2,6-
2060	1238	NM_019333	99	mRNA.11/22Length = 1739	biphosphatase 4
				1	
		]	1	Rattus norvegicus Protein	
	1	1		kinase, interferon-inducible	Protein kinase, interferon-inducible double stranded
0004		NA 040225		(Prkr), mRNA. 11/2Length = 388	
2061	52	NM_019335	d	Rattus norvegicus regulator of	1747 debendent
1	1	1		G-protein signaling 5	
				(Rgs5),mRNA. 11/22Length =	
2062	2088	NM_019341	aa,bb	546	regulator of G-protein signaling 5
	1			Rattus norvegicus glycoprotein	
		1		38 (Gp38), mRNA. 11/22Length	
2063	22675	NM_019358	a,n,o,kk	= 1854	glycoprotein 38
		1		Rattus norvegicus calponin 3,	1
000	0040	N. 040050		acidic (Cnn3), mRNA.	calponin 3, acidic
2064	2349	NM_019359	Γ	5/22Length = 1932 Rattus norvegicus cytochrome	calpoint of addic
1				oxidase subunit VIc (Cox6c),	
206	5 2322	NM_019360	С	mRNA, 11/2Length = 418	cytochrome oxidase subunit VIc
200	2022	31.41010000	<del> </del>	Rattus norvegicus palmitoyl-	, , , , , , , , , , , , , , , , , , , ,
] .				protein thioesterase 2	
1			1	(Ppt2),mRNA. 11/22Length =	1
2066	6 18819	9 NM_019367	l,m	166	palmitoyl-protein thioesterase 2

TABLE 1	i, .	: -	· ,	A. C. W.	Atty. Ref. 44921-5090-01-WO/2105485
050 10		GenBank Acc.			
SEQ ID:	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus palmitoyl-	
			1	protein thioesterase 2	1
0000	40000			(Ppt2),mRNA. 11/22Length =	
2066	18820	NM_019367	s,t	166	palmitoyl-protein thioesterase 2
				Rattus norvegicus EGL nine	1
				homolog 3 (C. elegans) (Egln3),	
2067	1323	NM_019371	c,aa,bb,ii	mRNA. 11/22Length = 2825	ECL pine homolog 2 (C. elegene)
		7	0,44,00,11	111 (VI. 11122Cingar - 2023	EGL nine homolog 3 (C. elegans)
				Rattus norvegicus EGL nine	
1 1				homolog 3 (C. elegans) (Egin3),	
2067	1324	NM_019371	f,g,aa,bb,kk	mRNA. 11/22Length = 2825	EGL nine homolog 3 (C. elegans)
				Rattus norvegicus prodynorphin	
1				(Pdyn), mRNA. 11/22Length =	
2068	20298	NM_019374	l,m	747	prodynorphin
				Rattus norvegicus stromal cell	
2000	40000	NIN 040000	l	derived factor receptor 1 (Sdfr1),	1
2069	18032	NM_019380	b,l,m	mRNA. 11/22Length = 2369	stromal cell derived factor receptor 1
				Rattus norvegicus golgi	
1	,			peripheral membrane protein p65 (GRASP65), mRNA.	
2070	2/53	NM_019385	i,k	11/2Length = 2493	galai agrichasal mambasa a usatsin see
2070	2400	1414_013303	), N	Rattus norvegicus tissue-type	golgi peripheral membrane protein p65
				transglutaminase (Tgm2),	
2071	16	NM_019386	cc,dd,kk	mRNA.11/22Length = 3393	ltissue-type transglutaminase
				Rattus norvegicus Kruppel	about type transglutarimase
			ļ	associated box (KRAB) zinc	
			l	finger 1(Kzf1), mRNA.	
2072	904	NM_019620	p	11/2Length = 194	Kruppel associated box (KRAB) zinc finger 1
				Rattus norvegicus calpactin I	calpactin I heavy chain, hydroxyacid oxidase 3
0070				heavy chain (Anxa2), mRNA.	(medium-chain), unknown Glu-Pro dipeptide repeat
2073	5/4	NM_019905	a,h,l,z,aa,kk,ll	11/22Length = 1395	protein
				Pattus paragiaus pastaupantia	
				Rattus norvegicus postsynaptic protein Cript (Cript), mRNA.	
2074	15911	NM_019907	cc,dd	11/22Length = 1435	nostevnantio protein Crint
		010001	55,44	Rattus norvegicus eukaryotic	postsynaptic protein Cript
				initiation factor 5 (elF-5)(Eif5),	
2075	18713	NM_020075	p,q,s,t		eukaryotic initiation factor 5 (elF-5)
				Rattus norvegicus eukaryotic	
	1			initiation factor 5 (elF-5)(Eif5),	
2075	18715	NM_020075	ee,ff	mRNA. 11/2Length = 354	eukaryotic initiation factor 5 (elF-5)
	1			Rattus norvegicus a disintegrin	
[	j	ļ		and metalloproteinase	
0070	10.00	NIM OCCOCC		domain17 (Adam17), mRNA.	
2076	13486	NM_020306	aa,bb	11/22Length = 4128	a disintegrin and metalloproteinase domain 17
	}			Rattus norvegicus thymosin,	
2077	20816	NM_021261		beta 1 (Tmsb1), mRNA.	About a single Late 40
2011	20010	14141_021201	<u>C</u>	1/22Length = 539 Rattus norvegicus ribosomal	thymosin, beta 10
1				protein L35a (Rpl35a),	
2078	15335	NM_021264	w		ribosomal protein I 35a
					moodoniai protoini cood
l	j			Rattus norvegicus transforming	
1	}	}		growth factor, beta 1 (Tgfb1),	
2079	18729	NM_021578	r		transforming growth factor, beta-1
			r		ribosomal protein Ł35a

TABLE 1	. : · · ·		·		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SECTO	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			1	Pathus populations activity and	
		i		Rattus norvegicus activity and	
				neurotransmitter-induced early gene protein 4 (ania-4) (Ania4),	gotivity and neuroteon witter is due to the
2080	18946	NM_021584	s,t	mRNA. 11/22Length = 4831	activity and neurotransmitter-induced early gene protein 4 (ania-4)
	100.0	11111_021004	13,0	Rattus norvegicus gap junction	protein 4 (ania-4)
i				membrane channel protein	
ĺ			ĺ	alpha 4(Gja4), mRNA.	Gap junction membrane channel, protein alpha 4
2081	25445	NM_021654	r	11/22Length = 12	(connexin 37)
-				Rattus norvegicus	ESTs, Highly similar to SYA_HUMAN Alanyl-tRNA
					synthetase (Alanine-tRNA ligase) (AlaRS)
2082	23424	NM_021680	j,k	11/22Length = 1265	[H.sapiens]
1				Bathus manusians are have	
				Rattus norvegicus membrane-	
				associated guanylatekinase- interacting protein (LOC59322),	morphrone acceptated avanuate kinese internation
2083	19661	NM_021686	n	mRNA. 3/21Length = 2691	membrane-associated guanylate kinase-interacting protein
	10001	14.102.1000		Rattus norvegicus cAMP-	protein
				regulated guanine nucleotide	
i				exchangefactor I (cAMP-GEFI)	
j				(Epac), mRNA. 11/2Length =	cAMP-regulated guanine nucleotide exchange
2084	19667	NM_021690	ii	3373	factor I (cAMP-GEFI)
1				Rattus norvegicus prothymosin	
222	22242		<u>.</u>	alpha (Ptma), mRNA.	
2085	22916	NM_021740	ii	11/22Length = 1182	prothymosin alpha
}				Rattus norvegicus CD14	
2086	10710	NM_021744	a,j,k,q,hh,kk	antigen (Cd14), mRNA.	CD14 antina
2000	197 10	19191_021744	а,ј,к,ч,пп,кк	11/22Length = 1591 Rattus norvegicus Nopp14	CD14 antigen
ļ	İ			associated protein (Nap65),	
2087	20035	NM_021754	a,y,z	mRNA. 11/2Length = 198	Nopp140 associated protein
j				Rattus norvegicus progesterone	
				receptor membrane component	
2022				1(Pgrmc1), mRNA. 11/22Length	
2088	17936	NM_021766	d,r,gg	= 1885	progesterone receptor membrane component 1
- (	1			Rattus norvegicus Avian	
				sarcoma virus 17 (v-jun)	
2089	22351	NM_021835	ee.ff	oncogene homolog (Jun), mRNA. 4/22Length = 2573	Avian carcoma virus 17 (v ius) escapes homeles
		02,000	JU,11	Rattus norvegicus jun B proto-	Avian sarcoma virus 17 (v-jun) oncogene homolog
-				oncogene (Junb), mRNA.	
2090	20161	NM_021836	j,k,p,q,r	11/22Length = 135	jun B proto-oncogene
				Rattus norvegicus fibroblast	<u> </u>
	Ì			growth factor 16 (Fgf16), mRNA.	
2091	20177	NM_021867	d,jj,kk	11/22Length = 624	Fibroblast growth factor 16
1	l	. 1		Rattus norvegicus tissue	
				inhibitor of metalloproteinase 2	
2092	242	VIM DOLOGO	blact	(Timp2), mRNA. 11/22Length =	FOT: Committee of well be restated as a C
2092	243	NM_021989	h,l,n,o,ll	19 Rattus norvegicus Hexokinase	ESTs, tissue inhibitor of metalloproteinase 2
				3 (Hk3), mRNA. 12/2Length =	
2093	171001	VM_022179	h,i,w,x,dd	3692	Hexokinase 3
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rattus norvegicus	I ICACIMIAGE O
ļ				topoisomerase (DNA) 2 alpha	,
}	}	]	· 1	(Top2a), mRNA. 11/22Length =	
2094		NM_022183			

TABLE 1	23 1				Atty. Ref. 44921-5090-01-WO/2105485
ردر به ا	CI OO ID	GenBank Acc.	100 100 100 100		
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus leukemia	
2225	•			inhibitory factor (Lif), mRNA.	
2095	20204	NM_022196	ee,ff,kk	11/22Length = 69	leukemia inhibitory factor
į				Rattus norvegicus putative	
-				chloride channel (similar to	
2000	20005		İ	MmClcn4-2) (LOC6586), mRNA	
2096	20225	NM_022198	b,l,m	12/2Length = 2244	putative chloride channel (similar to Mm Clcn4-2)
1				Rattus norvegicus Chemokine	
2007	20040	NA 000005	1,,	receptor (LCR1) (Cxcr4), mRNA	
2097	20249	NM_022205	11	5/22Length = 15	Chemokine receptor (LCR1)
			1	Rattus norvegicus neuromedin	
2098	20450	NA COCCO	l	(Nmu), mRNA. 11/22Length =	
2090	20450	NM_022239	b,l,m,u,v	832	neuromedin U
	İ		Į.	Rattus norvegicus cytochrome	
2000	760	NINA COOCAE		b5 (Cyb5), mRNA. 12/2Length =	1
2099	/02	NM_022245	h,l	751	cytochrome b5
				Rattus norvegicus	
2400	6262	NINA OGGGG	ļ., _{1.1.}	aminopeptidase A (Enpep),	
2100	0203	NM_022251	jj,kk	mRNA. 12/2Length = 475	aminopeptidase A
1				Rattus norvegicus connective	
2101	6505	NINA DODOCC	_ t.t.	tissue growth factor (Ctgf),	
2101	6000	NM_022266	q,kk	mRNA.11/22Length = 2345	connective tissue growth factor
- 1	1			Rattus norvegicus sorting nexin	
2402	12750	NN4 000000		16 (Snx16), mRNA. 12/2Length	
2102	13/58	NM_022289	11	= 1773	ESTs
	}				
2402	00544			Rattus norvegicus ETL protein	
2103	23511	NM_022294	n,o	(Etl), mRNA. 12/2Length = 4274	ETL protein
				Rattus norvegicus	
	ł			dimethylarginine	
	ļ			dimethylaminohydrolase 1	
2104	40.400	NINA 000007		(Ddah1), mRNA. 5/22Length =	_
2104	19423	NM_022297	u,v	38	dimethylarginine dimethylaminohydrolase 1
I	1			Rattus norvegicus alpha-tubulin	-
2405	47450			(Tuba1), mRNA. 12/2Length =	
2105	17158	NM_022298	f,s,t	1617	alpha-tubulin
1				Rattus norvegicus alpha-tubulin	
2405	47400	NA OSSOS		(Tuba1), mRNA. 12/2Length =	
2105	1/160	NM_022298	b,I,m,aa		alpha-tubulin
	1			Rattus norvegicus alpha-tubulin	
2105	47404	NIM DODGO		(Tuba1), mRNA. 12/2Length =	
2105	1/161	NM_022298	a,z,kk		alpha-tubulin
Ì	1			Rattus norvegicus brain acidic	
2400	40040	NIA 000000		membrane protein (Basp1),	
2106	10246	NM_022300	hh	mRNA. 12/2Length = 124	brain acidic membrane protein
I	-	Ì	ļ	Rattus norvegicus Proliferating	
j		ļ		cell nuclear antigen	
2407	44454	114 000001		(Pcna),mRNA. 11/22Length =	
2107	11454	VM_022381		116	Proliferating cell nuclear antigen
ļ		l		Rattus norvegicus Proliferating	
1	1	1		cell nuclear antigen	
2407	4445			(Pcna),mRNA. 11/22Length =	
2107	11455	VM_022381		116	Proliferating cell nuclear antigen
<del>+</del> -		1	T	Rattus norvegicus FXYD	
	Ì	1			· · · · · · · · · · · · · · · · · · ·
			ļ	domain-containing ion transport	
2108		VM_022388	ļ		

TABLE 1	· · · · · · · · · · · · · · · · · · ·	<del></del>	7 7	1 4/1 h 1 1 1	Atty. Ref: 44921-5090-01-WO/2105485
		GenBank Acc.			· 整理 经基本的 中国
SEQ.ID.	GLGC ID	No.	Model Code	Known Gene Name	Unigené Sequence Cluster Title
				Rattus norvegicus quinoid	<u></u>
				dihydropteridine reductase	
2400	12490	NIM DODOOD	ļ	(Qdpr),mRNA. 11/22Length =	
2109	13400	NM_022390	1	137 Rattus norvegicus growth	quinoid dihydropteridine reductase
				response protein (CL-	
				6)(LOC64194), mRNA.	
2110	22412	NM_022392	p,q	12/2Length = 241	growth response protein (CL-6)
		1444_022002	Pi4	Rattus norvegicus macrophage	growth response protein (OE 0)
				galactose N-acetyl-	
				galactosamine specific lectin	
İ			a,p,q,cc,dd,ee,	(MgI), mRNA. 1/22Length =	macrophage galactose N-acetyl-galactosamine
2111	22499	NM_022393	ff,jj,kk	1358	specific lectin
				Rattus norvegicus scaffold	
				attachment factor B (Safb),	·
2112	23061	NM_022394	s,t	mRNA.11/22Length = 3113	scaffold attachment factor B
				Rattus norvegicus	
[				mitochondrial processing	ESTs, Weakly similar to mitochondrial processing
0440	40004				peptidase beta [Rattus norvegicus] [R.norvegicus],
2113	18221	NM_022395	cc,dd	12/2Length = 157	mitochondrial processing peptidase beta
				Rattus norvegicus guanine nucleotide binding protein	
				gamma subunit 11 (Gng11),	guanine nucleotide binding protein gamma subunit
2114	23705	NM_022396	e,j,k,ii	mRNA. 12/2Length = 557	11
2117	20100	14W_022330	G,J,K,31	1010VA. 12/2Length = 33/	
				Rattus norvegicus 2-	
				oxoglutarate carrier (LOC6421),	
2115	23300	NM_022398	ii,kk	mRNA.12/2Length = 946	2-oxoglutarate carrier
			<i></i>	Rattus norvegicus calreticulin	
				(Calr), mRNA. 11/22Length =	
2116	24536	NM_022399	h,I,n,o	1882	calreticulin
				Rattus norvegicus branched	
				chain aminotransferase 2,	
				mitochondrial (Bcat2), mRNA.	
2117	24643	NM_022400	b,u,v	11/22Length = 1548	branched chain aminotransferase 2, mitochondrial
				Rattus norvegicus Aldehyde	
				dehydrogenase 1, subfamily A1	
2118	20045	NIM DODAGO	lele	(Aldh1a1), mRNA. 1/21Length =	Aldebude debudrageness 1. subfamily A1
2110	20313	NM_022407	kk	212 Rattus norvegicus ferritin light	Aldehyde dehydrogenase 1, subfamily A1
				chain 1 (FtI1), mRNA:	
2119	8211	NM_022500	jj,kk	11/22Length = 552	ferritin light chain 1
			<i>y</i> ,	Rattus norvegicus ferritin light	3
]				chain 1 (Ftl1), mRNA.	
2119	8212	NM_022500	h,l,kk,ll	11/22Length = 552	ferritin light chain 1
				Rattus norvegicus ribosomal	
				protein L36 (Rpl36), mRNA.	
2120	4259	NM_022504	f,g	11/22Length = 364	ribosomal protein L36
				Rattus norvegicus Rhesus	
	0500	NINA COOFEE		blood group (Rh), mRNA.	S
2121	8586	NM_022505	99	11/22Length = 1269	Rhesus blood group
				Rattus norvegicus Rhesus	
2121	9507	NIM OSSEDE	   h u u	blood group (Rh), mRNA.	Phone blood group
2121	0007	NM_022505	b,u,v	11/22Length = 1269 Rattus norvegicus ribosomal	Rhesus blood group
				protein L4 (Rpl4), mRNA.	
2122	1867	NM_022510	c,kk	11/22Length = 1387	ribosomal protein L4
- 2144	1007	ייויים_טבבט זט	O'UU	11144LENGIN1001	Imposoniai protein L4

TABLE 1				<b>4</b>	Atty. Ref. 44921-5090-01-WO/2105485
050.0		GenBank Acc.			
SEQID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1				Rattus norvegicus profilin	
2422	2400	NINA ODDEAA		(Pfn1), mRNA. 12/2Length =	
2123	2109	NM_022511	n,o,w,x	689	profilin
				Rattus norvegicus ribosomal	
2124	2027	NIM 022514	l	protein L27 (Rpl27), mRNA. 11/22Length = 463	Sharrand anti-is 1.07
2124	3021	NM_022514	W,X	Raltus norvegicus ribosomal	ribosomal protein L27
				protein L24 (Rpl24), mRNA.	
2125	2696	NM_022515	cc,dd	11/22Length = 541	ribosomal protein L24
		1022.010	50,00	Rattus norvegicus ribosomal	nibosoniai protein E24
				protein L24 (Rpl24), mRNA.	
2125	2697	NM_022515	f,g,gg	11/22Length = 541	ribosomal protein L24
			19.55	Rattus norvegicus	
		j		polypyrimidine tract binding	<u> </u>
		}		protein (Ptb), mRNA.	
2126	3900	NM_022516	s,t	11/22Length = 2723	polypyrimidine tract binding protein
				Rattus norvegicus	
ì				polypyrimidine tract binding	
				protein (Ptb), mRNA.	
2126	3904	NM_022516	aa,bb,ll	11/22Length = 2723	polypyrimidine tract binding protein
]				Rattus norvegicus	
1				polypyrimidine tract binding	
2426	400	NIM OOOE4C		protein (Ptb), mRNA.	
2126	102	NM_022516	e,u,v	11/22Length = 2723	malate dehydrogenase mitochondrial
				Rattus norvegicus ADP- ribosylation factor 1 (Arf1),	
2127	1115	NM_022518	ij,kk	mRNA.11/22Length = 9	ADD ribaculation factor 4
2121	- 4145	14101_022510	JJ,NN	Rattus norvegicus ADP-	ADP-ribosylation factor 1
]				ribosylation factor 1 (Arf1),	
2127	4151	NM_022518	b,l,m	mRNA.11/22Length = 9	ADP-ribosylation factor 1
				Rattus norvegicus ornithine	ner meestaten taater i
				aminotransferase (Oat), mRNA.	
2128	4242	NM_022521	b,l,m	11/22Length = 1938	ornithine aminotransferase
				Rattus norvegicus CD151	
				antigen (Cd151), mRNA.	
2129	4412	NM_022523	l,m	11/22Length = 1668	CD151 antigen
				Rattus norvegicus sushi-repeat-	
2420	4604	NISA DODECA	l	containing protein (Srpx);	
2130	4001	NM_022524	l,m	mRNA.11/22Length = 1827 Rattus norvegicus plasma	sushi-repeat-containing protein, X chromosome
				glutathione peroxidase	
	i			precursor(Gpxp), mRNA.	
2131	4615	NM_022525	cc,dd	12/2Length = 134	plasma glutathione peroxidase precursor
	,510	012020	00,00	Rattus norvegicus desmin	рыжна диналионе реголивае ртеситов
				(Des), mRNA. 11/22Length =	
2132	6100	NM_022531	n,o	2169	desmin
		1		Rattus norvegicus A-raf (Araf1),	
2133	6577	NM_022532	u,v	mRNA. 6/21Length = 2288	A-raf
	ļ			Rattus norvegicus	
	1	-	:	transcobalamin II precursor	1
242	7505	NIA 000504		(Tcn2p), mRNA. 11/22Length =	
2134	7505	NM_022534	<u>ii                                   </u>	188	transcobalamin II precursor
	l			Pattus populaisus sustantiu B	
2135	2007	NM_022536	h,I	Rattus norvegicus cyclophilin B	and at the D
£ 100	009/	INIVI_UZZUUU	11,1	(Ppib), mRNA. 12/2Length = 84	cyclobullu B

TABLE 1	es , '				Atty. Ref. 44921-5090-01-WO/2105485
CEO ::	CI.CC.IE	GenBank Acc.			
SEQ ID:	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Data	
2135	ลดดล	NM_022536		Rattus norvegicus cyclophilin B	aveloubilia D
2133	0030	NIVI_022336	ļii ,	(Ppib), mRNA. 12/2Length = 84 Rattus norvegicus	cyclophilin B
			'	phosphatidate	
				phosphohydrolase type	
				2a(Ppap2a), mRNA. 5/22Length	
2136	8596	NM_022538	n	= 871	phosphatidate phosphohydrolase type 2a
				Rattus norvegicus	i j
				phosphatidate	
			1	phosphohydrolase type	
0400	0507	*** ***	1	2a(Ppap2a), mRNA. 5/22Length	1
2136	8597	NM_022538	aa,bb,kk,ll	= 871	phosphatidate phosphohydrolase type 2a
				Rattus norvegicus	
2137	9240	NM_022540	j,k,w,x	peroxiredoxin 3 (Prdx3), mRNA. 11/22Length = 1433	Ingraviradavia 3
- 2101	5240	vi_UZZJ4U	],r,w,A	Rattus norvegicus rhoB gene	peroxiredoxin 3
				(Arhb), mRNA. 12/2Length =	
2138	9541	NM_022542	e,r	2183	rhoB gene
			1	Rattus norvegicus Death-	
				associated like kinase (Dapkl),	
2139	12422	NM_022546	n,o	mRNA. 12/2Length = 1514	Death-associated like kinase
				Rattus norvegicus thioredoxin	
0440	04070			reductase 2 (Txnrd2),	
2140	21076	NM_022584	e,w,x	mRNA.11/22Length = 1999	thioredoxin reductase 2
				Rattus norvegicus omithine	
				decarboxylase antizyme inhibitor(Oazi), mRNA.	
2141	21062	NM_022585	99	11/22Length = 4269	ornithine decarboxylase antizyme inhibitor
			199	Rattus norvegicus ornithine	отпанно чесагоохугазе апагуше шпіряю
				decarboxylase antizyme	
				inhibitor(Oazi), mRNA.	
2141	21063	NM_022585	f,y,z	11/22Length = 4269	ornithine decarboxylase antizyme inhibitor
	ŀ			Rattus norvegicus metastasis	
2440	20700	NINA OGGEGG		associated 1 (Mta1), mRNA.	
2142	20/62	NM_022588	r,s,t	1/21Length = 2741	metastasis associated 1
1	1			Rattus norvegicus enoyl coenzyme A hydratase 1	
İ			1	(Ech1), mRNA.11/22Length =	
2143	20925	NM_022594	g,hh	197	Peroxisomal enoyl hydratase-like protein
				Rattus norvegicus cellular	- crossconial encyr rydratase-inc protein
l	ļ		1	nucleic acid binding protein	
j	İ			(Cnbp),mRNA. 11/22Length =	
2144	20959	NM_022598	d,r	164	cellular nucleic acid binding protein
1		•	<u> </u>	Rattus norvegicus cellular	
1			1	nucleic acid binding protein	
2144	20050	NIM DODEDO		(Cnbp),mRNA. 11/22Length =	
2144	20900	NM_022598	c,e,r	Rattus norvegicus serine	cellular nucleic acid binding protein
·				threonine kinase pim3 (Pim3),	
2145	21115	NM_022602	j,k		serine threonine kinase pim3
			<u> </u>	Rattus norvegicus protein	COLUMN TRANSPORTED PARTO
				phosphatase 2C (AF95927),	.
2146	21206	NM_022606	С	mRNA.1/21Length = 1318	protein phosphatase 2C
				Rattus norvegicus H2A histone	
044-	17004	NIM 000074		family, member Z (H2afz),	
2147	1/001	NM_022674	d,gg	mRNA. 11/22Length = 811	H2A histone family, member Z

TABLE 1			Kell .		Atty. Ref. 44921-5090-01-WO/2105485
	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	Hairana Coguence Children Title
SEG ID	GEGC ID	NO.	Model Code	Kilowii Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus protein	
				phosphatase 1, regulatory	
				(inhibitor) subunit 1A (Ppp1r1a),	protein phosphatase 1, regulatory (inhibitor) subunit
2148	24564	NM_022676	f	mRNA. 11/22Length = 619	1A
	1			Rattus norvegicus germinal	
				histone H4 gene (Hist4), mRNA.	
2149	20506	NM_022686	d	1/21Length = 377	germinal histone H4 gene
				Rattus norvegicus germinal	ESTs, Highly similar to I48404 histone H4 (55AA) (1
04.40	0404		1.		is 3rd base in codon) - mouse (fragment)
2149	6121	NM_022686	d,r	1/21Length = 377	[M.musculus]
				Rattus norvegicus synaptosomal-associated	
				protein, 23 kD(Snap23), mRNA.	
2150	20509	NM_022689	b,r,u,v	1/21Length = 633	  synaptosomal-associated protein, 23 kD
			-1.121.	Rattus norvegicus p15	
				coactivator (U83883), mRNA.	
2151	17586	NM_022694	w,x	8/21Length = 3166	p105 coactivator
				Rattus norvegicus ribosomal	
1			1	protein L28 (Rpl28), mRNA.	
2152	17729	NM_022697	f,g,w,x,cc,dd	11/22Length = 466	ribosomal protein L28
				D. W	·
1				Rattus norvegicus bcl-2	
2153	17757	NIM MOOGOO	an dd	associated death agonist (Bad),	hal 2 acceptated doubt appoint
2100	17737	NM_022698	cc,dd	mRNA. 1/21Length = 115 Rattus norvegicus ribosomal	bcl-2 associated death agonist
				protein L3 (Rpl3), mRNA.	
2154	17808	NM_022699	cc,dd	11/22Length = 392	ribosomal protein L30
				Rattus norvegicus flotillin 1	
				(Flot1), mRNA. 11/22Length =	
2155	24346	NM_022701	99	2157	flotillin 1
1			•	Rattus norvegicus major vault	
0450	50	NIA 000745		protein (Mvp), mRNA.	
2156	58	NM_022715	บ,ง	11/22Length = 2756	major vault protein
				Rattus norvegicus Munc13-1 (Unc13h1), mRNA. 1/21Length	
2157	194	NM_022861	cc,dd	= 6683	  Munc13-1
- 2.07	101	022001		Rattus norvegicus iron-	India 1
				regulatory protein 2 (Ireb2),	
2158	202	NM_022863	h,I	mRNA. 1/21Length = 377	iron-regulatory protein 2
				Rattus norvegicus microtubule-	
				associated proteins 1A/1B	
6455	00000			lightchain 3 (MPL3), mRNA.	
2159	23606	NM_022867	W,X	1/21Length = 861	microtubule-associated proteins 1A/1B light chain 3
				Rattus norvegicus microtubule-	
				associated proteins 1A/1B lightchain 3 (MPL3), mRNA.	
2159	23608	NM_022867	r	11/21Length = 861	microtubule-associated proteins 1A/1B light chain 3
			<u> </u>	Rattus norvegicus nucleolar	The staballe debooldted proteins 174 75 light within to
•				phosphoprotein p13 (Nopp14),	
2160	24283	NM_022869	s,t	mRNA. 1/21Length = 369	nucleolar phosphoprotein p130
				Rattus norvegicus DnaJ-like	
				protein (Hsj2), mRNA.	
2161	6891	NM_022934	ee,ff	11/22Length = 161	DnaJ-like protein
				Rattus norvegicus cytosolic	
2460	2000	NIM DOODS	20	epoxide hydrolase (Ephx2),	autocolio opoutdo hudantos
2162	2006	NM_022936	aa	mRNA. 1/21Length = 1992	cytosolic epoxide hydrolase

TABLE 1						Alty. Ref. 44921-5090-01-WO/2105485
.A.,			Bank Acc.			
SEQ ID	GLGC ID	No.		Model Code	Known Gene Name	Unigene Sequence Cluster Title
					Rattus norvegicus cytosolic	
					epoxide hydrolase (Ephx2),	·
2162	2008	NM	_022936_	w,x,aa,bb	mRNA. 1/21Length = 1992	cytosolic epoxide hydrolase
					Rattus norvegicus syntaxin 12	
					(Stx12), mRNA. 11/22Length =	
2163	15697	MM	_022939	Ð	819	syntaxin 12
				-	Rattus norvegicus suppressor	
				<b>!</b>	of K+ transport defect 3	
					(Skd3),mRNA. 11/22Length =	
2164	18098	NM	_022947	1	2138	suppressor of K+ transport defect 3
1					Rattus norvegicus	
					tricarboxylate carrier-like	
					protein(Loc6542), mRNA.	
2165	18104	NM	_022948	hh	1/21Length = 2699	tricarboxylate carrier-like protein
1	ŀ			]	Rattus norvegicus ribosomal	
	40.00		000015	1 1	protein L14 (Rpl14), mRNA.	
2166	18107	MM	_022949	f,g	11/22Length = 715	ribosomal protein L14
	ļ	l			Rattus norvegicus slit homolog	İ
	45-0-	<b></b> .	000000		1 (Drosophila) (Slit1), mRNA.	CEM
2167	15/2/	NIVI	_022953	u,v	11/22Length = 495	Slit1
					Rattus norvegicus vacuolar	
					protein sorting protein 33a(Vps33a), mRNA.	
2460	2227		022064	1 1	, , ,	ESTs
2168	3331	IVIVI	_022961	a,y,z	1/21Length = 3269 Rattus norvegicus tRNA	E315
İ					selenocysteine associated	
1					protein(Secp43), mRNA.	
2169	0286	NIN	_023027	l,m	11/22Length = 864	tRNA selenocysteine associated protein
2103	3200	1 4141	_020021	1,111	Rattus norvegicus casein	than todanooystomo accounted protein
Ì	1				kinase 1 gamma 2 isoform	
]					(Csnk1g2), mRNA. 2/21Length	
2170	23215	NM	_023102	b,l,m	= 1572	casein kinase 1 gamma 2 isoform
			= :_ :_ :		Rattus norvegicus alpha(1)-	
					inhibitor 3, variant I (Mug1),	
2171	8269	NM	_023103	b,i,m	mRNA.2/21Length = 462	alpha(1)-inhibitor 3, variant I
		Ī				
ľ					Rattus norvegicus	
l	1				CCAAT/enhancer binding	
1	1				protein (C/EBP), beta (Cebpb),	Liver activating protein (LAP, also NF-IL6, nuclear
2172	21238	NM	_024125	p,q	mRNA. 11/22Length = 148	factor-IL6, previously designated TCF5)
1				1		
1					Rattus norvegicus	
1					CCAAT/enhancer binding	I the self-retire make (IAD slee NC II C mustons
0	04000	<b>.</b>	1.004405	p,q,r,bb,ee,ff,k	protein (C/EBP), beta (Cebpb),	Liver activating protein (LAP, also NF-IL6, nuclear
2172	21239	INN	1_024125	k	mRNA. 11/22Length = 148 Rattus norvegicus growth arrest	factor-IL6, previously designated TCF5)
	1				and DNA-damage-inducible 45	
					alpha (Gadd45a), mRNA.	
2173	350	MA	_024127	p,q	11/22Length = 711	DNA-damage-Inducible transcript 1
- 21/3	332	1 110	027121	Pi4	Rattus norvegicus growth arrest	
					and DNA-damage-inducible 45	
1		ł			alpha (Gadd45a), mRNA.	
2173	353	NM	1_024127	q,ee,ff,gg	11/22Length = 711	DNA-damage-inducible transcript 1
<del></del>	1	1	<u>:</u>	1,,-,33	Rattus norvegicus growth arrest	
1	1			1	and DNA-damage-inducible 45	
1					alpha (Gadd45a), mRNA.	
2173	354	NN	1_024127	p,q,ee,ff	11/22Length = 711	DNA-damage-inducible transcript 1
				11 / 30 2 - 4		1

TABLE 1			· · ·		Atty. Ref. 44921-5090-01-WO/2105485
050 ID		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Dettus assuminis D	
				Rattus norvegicus D- dopachrome tautomerase (Ddt),	
2174	17226	NM_024131	b,c,u,v	mRNA. 11/22Length = 628	D-dopachrome tautomerase
	17220	TAIN_024131	D,O,u,V	Initiva. 11/22Lengar – 020	D-dopacinome tautomerase
				Rattus norvegicus D-	
i			1	dopachrome tautomerase (Ddt),	
2174	17227	NM_024131	С	mRNA. 11/22Length = 628	D-dopachrome tautomerase
1			1	Rattus norvegicus guanine	
				nucleotide binding protein,	
0475	4070	NINA 004400		gamma 7(Gng7), mRNA.	guanine nucleotide binding protein (G protein),
2175	1879	NM_024138	l,m	11/22Length = 2897	gamma 7 subunit
				Rattus norvegicus Fibroblast	
				growth factor receptor 1 (Fgfr1),	•
2176	24623	NM_024146	la	mRNA: 5/22Length = 2469	Fibroblast growth factor receptor 1
1					- In the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
				Rattus norvegicus	
			,	apurinic/apyrimidinic	
			1.	endonuclease 1 (Apex),mRNA.	
2177	20801	NM_024148	d,s,t	5/22Length = 1213	apurinic/apyrimidinic endonuclease 1
				Rattus norvegicus ADP-	
2178	1742	NM_024150	p,q,y,ee,ff	ribosylation factor 2 (Arf2), mRNA.11/22Length = 17	ADP-ribosylation factor 2
- 2170	1742	14141_024130	p,q,y,ee,ii	Rattus norvegicus ADP-	ADE-HOUSYIALION FACTOR 2
]			l	ribosylation factor 4 (Arf4),	, , , , , , , , , , , , , , , , , , ,
2179	17517	NM_024151	f	mRNA.11/22Length = 168	ADP-ribosylation factor 4
				Rattus norvegicus ADP-	
				ribosylation factor 6 (Arf6),	
2180	21696	NM_024152	y,z	mRNA.11/22Length = 995	ADP-ribosylation factor 6
				Rattus norvegicus annexin VI (Anxa6), mRNA. 11/22Length =	
2181	561	NM_024156	jj,kk	2739	annexin VI
		14.42_02-1100	jj,cic	Rattus norvegicus annexin VI	CALL VI
				(Anxa6), mRNA. 11/22Length =	
2181	562	NM_024156	٢	2739	annexin VI
				Rattus norvegicus disabled	
	İ			homolog 2, mitogen-	·
			İ	responsivephosphoprotein	disabled bearing on the control of the
2182	4504	NM 02/150	d	(Drosophila) (Dab2), mRNA.	disabled homolog 2, mitogen-responsive
2182	7304	NM_024159	ļ —	5/22Length = 317 Rattus norvegicus cytochrome	phosphoprotein (Drosophila)
				b558 alpha-subunit (Cyba),	
2183	20770	NM_024160	n,o	mRNA.2/21Length = 79	cytochrome b558 alpha-subunit
				Rattus norvegicus fatty acid	
				binding protein 3 (Fabp3),	
2184	16476	NM_024162	aa	mRNA. 11/22Length = 666	Fatty acid binding protein 3, muscle and heart
				Rattus norvegicus Heat shock	
2185	17764	NM_024351	e,p,r,ee,ff	cognate protein 7 (Hsc7), mRNA. 11/22Length = 273	boot shock 70kD protoin 9
2100	17704	1101_024331	ໄຂ່ໄດ້ໄດ້ຄວາມ	Rattus norvegicus Heat shock	heat shock 70kD protein 8
				cognate protein 7 (Hsc7),	
2185	17765	NM_024351	e,p,q,r,ee,ff	mRNA. 11/22Length = 273	heat shock 70kD protein 8
				Rattus norvegicus	
				Phospholipase C , beta4	
				(Plcb4), mRNA. 1/22Length =	
2186	20933	NM_024353	h,i	5297	Phospholipase C, beta4

TABLE 1				A 13-	Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	01.00.10	GenBank Acc.			[ A B ] [ A B B ] [ A B B ] [ A B B B B B B B B B B B B B B B B B B
SEGID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus GTP	
0407	45240	NII 4 00 40 50		cyclohydrolase 1 (Gch), mRNA.	
2187	15349	NM_024356	a,y,z	11/22Length = 116	GTP cyclohydrolase 1
				Rattus norvegicus GTP	
2187	15252	NIM ODADEC		cyclohydrolase 1 (Gch), mRNA.	OTP
2107	10000	NM_024356	j,k,y,z,ii	11/22Length = 116 Rattus norvegicus hypoxia	GTP cyclohydrolase 1
				inducible factor 1, alpha subunit	
				(Hif1a), mRNA. 11/22Length =	
2188	1146	NM_024359	y,z	3718	hypoxia inducible factor 1, alpha subunit
			, <u>,</u>	Rattus norvegicus 5-	Type Na maddible factor 1, dipita 3ubumi
l i				hydroxytryptamine (serotonin)	
				receptor 6(Htr6), mRNA.	·
2189	767	NM_024365	b,c	11/22Length = 1929	5-hydroxytryptamine (serotonin) receptor 6
				Rattus norvegicus follistatin-	
				related protein (Frp), mRNA.	
2190	15622	NM_024369	f,g	11/22Length = 137	follistatin-related protein precursor
				Rattus norvegicus follistatin-	
0400	45000	NN 00 (000		related protein (Frp), mRNA.	
2190	15623	NM_024369	<u>r</u>	11/22Length = 137	follistatin-related protein precursor
				Rattus norvegicus prepro bone	
2191	23488	NM_024375	ก,o	inducing protein (Gdf1), mRNA. 3/21Length = 2411	manus base industrial and the
2101	23400	14141_024373	11,0	Rattus norvegicus hairy and	prepro bone inducing protein
	1			enhancer of split 5	
	[	i		(Drosophila)(Hes5), mRNA.	
2192	11628	NM_024383	b	11/22Length = 592	hairy and enhancer of split 5 (Drosophila)
			<del></del>	Rattus norvegicus 3-hydroxy-3-	indiffy and crimanocr or spin o (Diosophila)
				methylglutaryl CoA lyase	
				(Hmgcl), mRNA. 3/21Length =	
2193	2811	NM_024386	cc,dd	139	3-hydroxy-3-methylglutaryl CoA lyase
				Rattus norvegicus 3-hydroxy-3-	
}	[			methylglutaryl CoA lyase	
0400	2240			(Hmgcl), mRNA. 3/21Length =	
2193	2812	NM_024386	w,x,cc,dd	139	3-hydroxy-3-methylglutaryl CoA lyase
	ŀ			Rattus norvegicus 3-hydroxy-3-	
				methylglutaryl CoA lyase	
2193	2813	NM_024386	h	(Hmgcl), mRNA. 3/21Length =	2 hadron 2 that the 1 0 . A harm
2133	2013	11VI_UZ430U	b	139 Rattus norvegicus immediate	3-hydroxy-3-methylglutaryl CoA lyase
				early gene transcription factor	
		İ		NGFI-B (Nr4a1), mRNA.	
2194	21	NM_024388	w,x	3/21Length = 2488	immediate early gene transcription factor NGFI-B
				Rattus norvegicus immediate	minodiate early gene transcription factor (40) PD
		ļ		early gene transcription factor	
		İ		NGFI-B (Nr4a1), mRNA.	
2194	22	VM_024388	w,x	3/21Length = 2488	immediate early gene transcription factor NGFI-B
				Rattus norvegicus peroxisomal	
_		}		multifunctional enzyme type II	
0.55				(Hsd17b4), mRNA. 3/21Length	
2195	25070	VM_024392	r,ii	= 2535	peroxisomal multifunctional enzyme type II
		1		Rattus norvegicus a disintegrin	
	-			and metalloproteinase with	•
		j		thrombospondin motifs 1	
2406	22525	JIM 024400	l.t.	(AUAM I S-1) (Adamts1), mRNA.	a disintegrin and metalloproteinase with
2196	22020	VM_024400	kk	1/22Length = 4878	thrombospondin motifs 1 (ADAMTS-1)

TAB	LE 1	11.0		÷ .,	3	Atty. Ref. 44921-5090-01-WO/2105485
050		) )	GenBank Acc.			· 2. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SEU	י חוז	SLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			L	1	Rattus norvegicus activating	
1	İ		ĺ	1	transcription factor ATF-4	
1.			1		(Atf4),mRNA. 3/21Length =	
1 2	2197	13633	NM_024403	e,p,q,y,z	1173	activating transcription factor ATF-4
1	ł		İ	1	Rattus norvegicus activating	
İ	l i			ì	transcription factor ATF-4	
1 .					(Atf4),mRNA. 3/21Length =	
2	2197	13634	NM_024403	a,j,k,p,q,y,z	1173	activating transcription factor ATF-4
	- 1				Rattus norvegicus activin type I	
١,		000			receptor (Acvr1), mRNA.	
	2198	938	NM_024486	U,V	3/21Length = 178	activin type I receptor
1				Ī	Rattus norvegicus GrpE-like 1,	
1 ,	1100	000	NIA 004407	l	mitochondrial (Grpel1),	
<del> </del>	199	862	NM_024487	hh	mRNA.5/22Length = 961	GrpE-like 1, mitochondrial
				1	Rattus norvegicus CDK5	
					activator-binding protein C53	
1 ,	200	17017	NIM 024400	l	(C53), mRNA. 3/21Length =	
	200	1/91/	NM_024488	b,v	1865	CDK5 activator-binding protein C53
				ļ	Rattus norvegicus cytochrome	
1					b5, outer mitochondrial	
2	201	3/18	NM_030586	ļ., ,,	membraneisoform (omb5),	cytochrome b5, outer mitochondrial membrane
	201	340	MM_030300	u,v ·	mRNA. 3/21Length = 845	isoform
					Rattus norvegicus cytochrome	
Ì					b5, outer mitochondrial	
2:	201	3/10	NM_030586	II	membraneisoform (omb5),	cytochrome b5, outer mitochondrial membrane
	-	- 043	14141_030300		mRNA. 3/21Length = 845 Rattus norvegicus Glutathione	isoform
[	- 1	l	i		peroxidase 1 (Gpx1),	
22	202	1852	NM_030826	aa,gg	mRNA.11/22Length = 1539	FCT- Character 11 4
			000020	Lu,gg	Rattus norvegicus glypican 1	ESTs, Glutathione peroxidase 1
į	- 1	į			(Gpc1), mRNA. 11/22Length =	
22	203	21746	NM_030828	С	359	glypican 1
	_ _				000	grypicari
1		1			Rattus norvegicus growth factor	
l ·		1	ļ		receptor bound protein 2(Grb2),	
22	204	18023	NM_030846	b	mRNA. 11/22Length = 299	growth factor receptor bound protein 2
	$\top$				Rattus norvegicus epithelial	3.5 min motor receptor bodita protein 2
ļ	-	- 1			membrane protein 3 (Emp3),	
22	205	21509	VM_030847	h,I,n,o	mRNA.11/22Length = 737	epithelial membrane protein 3
	T				Rattus norvegicus myocyte	protoni o
1	- 1				enhancer factor 2D (Mef2d),	
22	206	16292	VM_030860	cc,dd	mRNA. 11/22Length = 1557	myocyte enhancer factor 2D
	T				Rattus norvegicus moesin	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
		ł		ļ	(Msn), mRNA. 11/22Length =	
22	207	1048	VM_030863		-	moesin
	1	T				
		J	į	1	Rattus norvegicus pyruvate	
		-	ĺ		dehydrogenase kinase 2 (Pdk2),	pyruvate dehydrogenase kinase 2 subunit p45
22	80	1928	NM_030872	s,t	mRNA.11/22Length = 227	(PDK2)
	-					
	1	- 1	İ	ļ	Rattus norvegicus pyruvate	İ
	اء	4		Į.	dehydrogenase kinase 2 (Pdk2),	pyruvate dehydrogenase kinase 2 subunit p45
220	USI	1929 1	IM_030872  I	nh	mRNA.11/22Length = 227	(PDK2)
				1	Rattus norvegicus Guanine	' i
					nucleotide-binding protein beta	1
220		2405	IM_030987	•	Rattus norvegicus Guanine nucleotide-binding protein beta 1(Gnb1), mRNA. 4/22Length = 2837	

TABLE 1	1.4		:		Atty. Ref. 44921-5090-01-WO/2105485
CEO ID	CI CC ID	GenBank Acc.	Madel Code		G. Total
SECTIO	GLGC ID	INO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
<b>i</b> i				Rattus norvegicus Guanine nucleotide-binding protein beta	
			1	11(Gnb1), mRNA. 4/22Length =	
2209	21805	NM_030987	cc,dd	2837	Guanine nucleotide-binding protein beta 1
	2.000	- TINI_000307	00,00	Rattus norvegicus	Cualific nucleotide-binding protein beta 1
[ [			[	synaptosomal-associated	ESTs, Highly similar to LAS1_MOUSE LIM AND
			1	protein (Snap25),mRNA.	SH3 DOMAIN PROTEIN 1 (LASP-1) (MLN 50)
2210	8815	NM_030991	aa,bb	11/22Length = 21	[M.musculus]
		<del></del>		Rattus norvegicus Microtubule-	
				associated protein 1a (Map1a),	
2211	1991	NM_030995	h,l	mRNA. 4/21Length = 1,12	Microtubule-associated protein 1a
				Rattus norvegicus actinin,	
			ĺ	alpha 1 (Actn1), mRNA.	
2212	21166	NM_031005	a,n,o	5/22Length = 2956	actinin, alpha 1
				Rattus norvegicus arachidonate	
				12-lipoxygenase	
2212	05547	NIN 024040		(Alox12),mRNA. 11/22Length =	
2213	20017	NM_031010	C,V	248 Rattus norvegicus arachidonate	arachidonate 12-lipoxygenase
				12-lipoxygenase	
			l .	(Alox12),mRNA. 11/22Length =	
2213	1845	NM_031010	c,v	248	arachidonate 12-lipoxygenase
	1040	14M_001010	0,0	Rattus norvegicus S-	aracindonate 12-iipoxygenase
			1	Adenosylmethionine	
				decarboxylase 1A (Amd1a),	
2214	15682	NM_031011	n,o	mRNA, 11/22Length = 312	S-Adenosylmethionine decarboxylase 1
				Rattus norvegicus S-	
<b>j</b> j	İ		}	Adenosylmethionine	
				decarboxylase 1A (Amd1a),	
2214	15683	NM_031011	cc,dd,gg	mRNA. 11/22Length = 312	S-Adenosylmethionine decarboxylase 1
				Rattus norvegicus alanyl	
				(membrane) aminopeptidase	
2045	4540	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(Anpep), mRNA. 1/22Length =	
2215	1540	NM_031012	n	Raltus norvegicus muscarinic	alanyl (membrane) aminopeptidase
				receptor m2 (Chrm2), mRNA.	
2216	1024	NM_031016	s,u,v	4/21Length = 2483	muscarinic receptor m2
	1021	1411_001010	0,4,4	Rattus norvegicus muscarinic	muscamic receptor me
1				receptor m2 (Chrm2), mRNA.	
2216	1025	NM_031016	u,v	4/21Length = 2483	muscarinic receptor m2
				Rattus norvegicus cAMP	
				response element binding	
				protein 1 (Creb1), mRNA.	
2217	485	NM_031017	i,m	3/22Length = 1125	cAMP response element binding protein 1
				Rattus norvegicus drebrin 1	
				(Dbn1), mRNA. 11/22Length =	
2218	1719	NM_031024	jj,kk	2697	drebrin 1
			1	Rattus norvegicus LIC-2 dynein	
			(	light intermediate chain	
2240	16240	NIM 024026		53/55(Dncli2), mRNA.	ILIC 2 duncin light intermediate shain 52/55
2219	10210	NM_031026	l,m	4/21Length = 43 Rattus norvegicus guanine	LIC-2 dynein light intermediate chain 53/55
]				nucleotide binding protein, alpha	
				12 (Gna12), mRNA.	quanine nucleotide binding protein (G protein) alpha
2220	690	NM_031034	w,x	11/22Length = 1423	12
	000	00 1007	.,^	1 1122CO1981 - 1420	16
			ł	Rattus norvegicus GTP-binding	
				protein (G-alpha-i2) (Gnai2),	
2221	15886	NM_031035	r,bb,li	mRNA. 4/21Length = 1748	GTP-binding protein (G-alpha-i2)

TABLE 1		,	1 42		Atty. Ref. 44921-5090-01-WO/2105485
050.5		GenBank Acc		(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
SEQ ID	GLGC ID	No.	Model Code		Unigene Sequence Cluster Title
			1	Rattus norvegicus glycogenin	
2000			ŀ	(Gyg), mRNA. 11/22Length =	
2222	17727	NM_031043	c	1624 .	glycogenin
1				Rattus norvegicus inositol 1,4,5	)-
			1	triphosphate receptor type 2	
0000	40400			(ltpr2), mRNA. 11/22Length =	
2223	18188	NM_031046	gg	1,78	inositol triphosphate receptor type 2
			ŀ	Rattus norvegicus unction	
2224	1724	NINA 024047	:: 1.1.	plakoglobin (Jup), mRNA.	
2224	1/31	NM_031047	jj,kk	4/21Length = 3177	unction plakoglobin
1				Rattus norvegicus lumican	
2225	15057	NM_031050	c,ii	(Lum), mRNA. 11/22Length =	
- 2225	13337	MM_031030	10,8	Rattus norvegicus matrix	lumican
li			1	metalloproteinase 2 (72 KDa	
				type IVcollagenase) (Mmp2),	Pottus populacione malatinana A a-DNA annutut
2226	21182	NM_031054	l,m	mRNA. 5/22Length = 3231	Rattus norvegicus gelatinase A mRNA, complete cds
		001001	1,,	Rattus norvegicus ribosomal	tus
				protein L1a (Rpl1a),	
2227	11849	NM 031065	h,l,n,o	mRNA.11/22Length = 71	ribosomal protein L10a
				Rattus norvegicus PCTAIRE-1	noosoniai protein Eroa
	1			protein kinase, alternatively	
	- 1			spliced (Pctk1), mRNA.	
2228	25600	NM_031077	b,l,m	1/22Length = 3111	PCTAIRE-1 protein kinase, alternatively spliced
				Rattus norvegicus PCTAIRE-1	protein viinesel attendarion opinoca
	1			protein kinase, alternatively	
	ŀ			spliced (Pctk1), mRNA.	
2228	6349	NM_031077	ee,ff	1/22Length = 3111	PCTAIRE-1 protein kinase, alternatively spliced
	į			Rattus norvegicus cyclic GMP	
				stimulated phosphodiesterase	
2000				(Pde2a), mRNA. 4/21Length =	
2229	79	NM_031079	y,z,ee,ff	398	cyclic GMP stimulated phosphodiesterase
- 1	1			Rattus norvegicus	
-				phosphatidylinositol 4-kinase	
2230	4604	JM 034003	L	(Pik4cb),mRNA. 11/22Length =	
	40041	VM_031083	b,l,m	Rettus popularious Rehalb	phosphatidylinositol 4-kinase
				Rattus norvegicus Rab3B protein (Rab3b), mRNA.	
2231	18307	VM_031091	w,x	4/21Length = 66	D=120
	1000711	1101001	W,A	Rattus norvegicus Rab3B	Rab3B protein
				protein (Rab3b), mRNA.	
2231	18308	NM_031091	w,x	4/21Length = 66	Poh2P protoin
				Rattus norvegicus (Rala),	Rab3B protein
2232	152011	VM_031093	h,I,w	mRNA. 11/22Length = 952	
			,,,	Rattus norvegicus(Rala),	
2232	15202	VM_031093	f,w,x,cc,dd	mRNA. 11/22Length = 952	
				Rattus norvegicus (Rala),	
2232	15203	M_031093	aa,bb	mRNA. 11/22Length = 952	
				Rattus norvegicus	
·	1			Retinoblastoma-related gene	
				(Rb2), mRNA. 11/22Length =	
2233	1376	IM_031094	ii	4861	Retinoblastoma-related gene
	1			Rattus norvegicus	
200				aminopeptidase B (Rnpep),	
2234	1295	IM_031097	j,k,r	mRNA. 4/21Length = 228	aminopeptidase B
	1	ļ		Rattus norvegicus ribosomal	
2025	40000			protein L5 (Rpl5), mRNA.	·
2235	12038	IM_031099	e	11/22Length = 169	ribosomal protein L5

TABLE 1	· .		<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		<b>多世界。1917年11月</b>	
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		•	•	Rattus norvegicus ribosomal	
2005	40000			protein L5 (Rpl5), mRNA.	
2235	12639	NM_031099	g	11/22Length = 169	ribosomal protein L5
				Rattus norvegicus ribosomal	
2236	20012	NINA 024400		protein L1 (Rpl1), mRNA.	it as and a matrix 1.40
2230	20012	NM_031100	g,h,l	11/22Length = 769 Rattus norvegicus ribosomal	ribosomał protein L10
				protein L13 (Rpl13), mRNA.	
2237	23854	NM_031101	f,w,x,ll	11/22Length = 722	ribosomal protein L13
- 2207	20007	14147_021101	1,44,2,11	Rattus norvegicus ribosomal	indosoritai protein L13
				protein L18 (Rpl18), mRNA.	
2238	20462	NM_031102	h,i	11/22Length = 67	ribosomal protein L18
			,.	Rattus norvegicus ribosomal	insecting protein 210
				protein L19 (Rpl19), mRNA.	
2239	16938	NM_031103	g	11/22Length = 73	ribosomal protein L19
				Rattus norvegicus large subunit	
				ribosomal protein L36a(Rpl36a),	
2240	22205	NM_031105	b	mRNA. 4/21Length = 444	large subunit ribosomal protein L36a
1				Rattus norvegicus ribosomal	
				protein L37 (Rpl37), mRNA.	
2241	20807	NM_031106	f,g	11/22Length = 366	ribosomal protein L37
	•			Rattus norvegicus ribosomal	
				protein S1 (Rps1), mRNA.	
2242	16847	NM_031109	h,l,x	11/22Length = 61	ribosomal protein S10
1				Rattus norvegicus ribosomal	
0040	40070	NII 004440		protein S11 (Rps11), mRNA.	
2243	10878	NM_031110	g,j,k	11/22Length = 534	ribosomal protein S11
				Rattus norvegicus ribosomal	
2244	10163	NISS 024444	h i	protein S21 (Rps21), mRNA.	ath a consult marketic COA
2244	19102	NM_031111	h,i	11/22Length = 359   Rattus norvegicus ribosomal	ribosomal protein S21
1				protein S24 (Rps24), mRNA.	
2245	25458	NM_031112	h,l	11/22Length = 466	
22.10	20100	14M_001112	11,1	Rattus norvegicus ribosomal	
				protein S27a (Rps27a),	
2246	20839	NM_031113	w,x	mRNA.4/21Length = 552	ribosomal protein S27a
				Rattus norvegicus S-1 related	naccontai protein cz, u
	ł			protein, clone 42C (S1A1),	
2247	19040	NM_031114	a,c,h,l,y,ee,ff	mRNA. 2/22Length = 573	S-100 related protein, clone 42C
				Rattus norvegicus suppression	
				of tumorigenicity 13	
1				(coloncarcinoma) Hsp7-	
	}	1		interacting protein (St13),	suppression of tumorigenicity 13 (colon carcinoma)
2248	23568	NM_031122	е	mRNA. 4/21Length = 1694	Hsp70-interacting protein
				Rattus norvegicus suppression	
				of tumorigenicity 13	
				(coloncarcinoma) Hsp7-	
.0045	0050-		i	interacting protein (St13),	suppression of tumorigenicity 13 (colon carcinoma)
2248	23569	NM_031122	<u>r</u>	mRNA. 4/21Length = 1694	Hsp70-interacting protein
				Rattus norvegicus stanniocalcin	
2240	900	NIMA COMMOD		1 (Stc1), mRNA. 11/22Length =	
2249	882	NM_031123	<u>d</u>	Pattus populations systems 2	stanniocalcin 1
		i		Rattus norvegicus syntaxin 3	
2250	1265	NM_031124	11.92	(Stx3a), mRNA. 11/22Length =	ountovin 2
2250	1200	14147_021124	u,v	154   Rattus norvegicus sulfite	syntaxin 3
				oxidase (Suox), mRNA.	·
2251	14970	NM_031127	a,h,l,n,o	11/22Length = 1777	sulfite oxidase
2201	1 10/0		4,11,11,11,0	Truckendar - 1111	John Calabe

TABLE	1	ConDonl			Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGCT	GenBank Ac D No.			
OE GI ID	OLGOI	DINO.	Model Code	<u> </u>	Unigene Sequence Cluster Title
			1	Rattus norvegicus transcription	ו
		ŀ		elongation factor B (SIII)	
	l	f		polypeptide 2 (18kD, elongin B)	)
2252		, , , , , , , , , , , , , , , , , , ,	1	(TCEB2), mRNA. 4/21Length =	transcription elongation factor B (SIII) polypeptide
2252	652	5 NM_031129	99	357	(18kD, elongin B)
	!		1		
		}		Rattus norvegicus transforming	) <del> </del>
2252	4200	0	1	growth factor, beta 2 (Tgfb2),	
2253	1392	9 NM_031131	n,o,hh	mRNA. 11/22Length = 288	TGF beta 2 protein
				D-4.	
		1	]	Rattus norvegicus thyroid	
2254	181	6 NM_031134	1	hormone receptor alpha (Thra),	
2204	101	011111_031134	l,m	mRNA.11/22Length = 246	thyroid hormone receptor alpha
			İ	Rattus norvegicus TGFB	
1			1	inducible early growth response	' <b> </b>
2255	1335	B NM_031135	d	(Tieg),mRNA. 11/22Length =	
		5 11W_051155	-	3115	TGFB inducible early growth response
- 1			1	Rattus norvegicus TGFB	
- 1				inducible early growth response	
2255	13350	NM_031135		(Tieg),mRNA. 11/22Length =	
	10000	7 14W_031133	s,t	3115	TGFB inducible early growth response
				Rattus norvegicus thymosin	
2256	15050	NM_031136	awy on hh	beta-4 (Tmsb4x), mRNA.	
- 2200	13002	- IVW_031130	c,w,x,aa,bb	4/21Length = 686	thymosin beta-4
1			1	Rattus norvegicus thymosin	
2256	10350	NM_031136	h.	beta-4 (Tmsb4x), mRNA.	
	10000	/ INIVI_031130	h,l	4/21Length = 686	EST
Í		İ		Rattus norvegicus	
2257	15485	NM_031137	l m	tripeptidylpeptidase II (Tpp2),	
	10100	1414 03 1 137	l,m	mRNA. 4/21Length = 4566 Rattus norvegicus	tripeptidylpeptidase II
- 1			1		
2257	15486	NM_031137	w,x	tripeptidylpeptidase II (Tpp2),	
		001107	W,^	mRNA. 4/21Length = 4566 Rattus norvegicus ubiquitin	tripeptidylpeptidase II
				conjugating enzyme	
				(LOC81816),mRNA. 4/21Length	
2258	17379	NM_031138	r,w,x	1	and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th
		V001100	1,10,1	Rattus norvegicus vimentin	ubiquitin conjugating enzyme
				(Vim), mRNA. 11/22Length =	·
2259	15185	NM_031140	n,bb,ll	14700	·
			,00,11	Rattus norvegicus	vimentin
1			1	diacylglycerol kinase zeta	
l				(Dgkz), mRNA.11/22Length =	
2260	1638	NM_031143	d,e,ii,kk	10-0	dioaylahaasal kissas sata
			-,5,10,100	Rattus norvegicus cytoplasmic	diacylglycerol kinase zeta
l	İ			beta-actin (Actx), mRNA.	
2261	21623	NM_031144	С	4/21Length = 1128	
			-	72 1201gus - 1120	
l	ł			Rattus norvegicus calcium- and	
	- 1		:	integrin-binding protein(Sip2-	
2262	23097	NM_031145	n,o,cc,dd		coloium, and intoxic bladtes and to
			,-,,	Rattus norvegicus for	calcium- and integrin-binding protein
ļ	1			proteasomal ATPase (SUG1)	
1	ļ	]		(LOC81827),mRNA. 4/21Length	
2263	1291	NM_031149	C,F	·	for mediana and ATD 10110.13
			- ,-	Rattus norvegicus RAB11a,	or proteasomal ATPase (SUG1)
ļ	İ	į		member RAS oncogene	į
	- 1			family(Rab11a), mRNA.	
2264	2391	NM_031152		444001 11 -	DAD44 - manula DAO
					RAB11a, member RAS oncogene family

TABLE 1	.1,			ŷ.	S	Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	Gen	Bank Acc.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
SEGID	GEGG ID	NQ.		Model Code	Rattus norvegicus glutathione S	
[ ]					transferase, mu type 3 (Yb3)	
1 1			_		(Gstm3), mRNA, 4/21Length =	
2265	20862	NM_	031154	w,x	128	glutathione S-transferase, mu type 3 (Yb3)
					Rattus norvegicus ubiquitin-	1
					conjugating enzyme E2D	
					3(homologous to yeast UBC4/5)	
2266	15070	NIR A	031237	aa,bb	(Ube2d3), mRNA. 4/21Length = 1531	ubiquitin-conjugating enzyme E2D 3 (homologous
2200	10213	TAIM_	031231	da,00	Rattus norvegicus ubiquitin-	to yeast UBC4/5)
					conjugating enzyme E2D	
					3(homologous to yeast UBC4/5)	
					(Ube2d3), mRNA. 4/21Length =	ubiquitin-conjugating enzyme E2D 3 (homologous
2266	15277	NM_	031237	а	1531	to yeast UBC4/5)
					Pattue popularious LIDD alumana	
					Rattus norvegicus UDP-glucose dehydrogeanse (Ugdh),	
2267	18596	NM	031325	น,۷	mRNA.4/21Length = 2318	UDP-glucose dehydrogeanse
						g.30000 doily diogoundo
	i				Rattus norvegicus UDP-glucose	
0007	4050=	A 13 4	024005		dehydrogeanse (Ugdh),	
2267	18597	IVM_	031325	<u>,ff</u>	mRNA.4/21Length = 2318	UDP-glucose dehydrogeanse
[					Rattus norvegicus cysteine rich protein 61 (Cyr61), mRNA.	
2268	11258	NM.	031327	y,z,ee,ff,gg	11/22Length = 1871	cysteine rich protein 61
						7
					Rattus norvegicus	
	-		-		heterogeneous nuclear	
2269	ADDE	NAA .	031330	hdfalm	ribonucleoprotein A/B(Hnrpab),	hotoro anno 110 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta - 11 musta
2209	4233	. AIAI	001000	b,d,f,g,l,m	mRNA. 11/22Length = 361 Rattus norvegicus voltage-	heterogeneous nuclear ribonucleoprotein A/B
					dependent anion channel 1	
			İ	ļ	(Vdac1), mRNA. 11/22Length =	
2270	18539	NM_	031353	f,g	1818	voltage-dependent anion channel 1
				ĺ	Rattus norvegicus voltage-	
					dependent anion channel 2	
2271	16777	NM (	031354		(Vdac2), mRNA. 11/22Length =   1715	voltage-dependent anion channel 2
<del></del> -'	.5,,,,		31007		Rattus norvegicus ceroid-	voluge dependent amon Glattier 2
					lipofuscinosis, neuronal 2	<b>!</b>
					(Cln2),mRNA. 11/22Length =	
2272	20087	NM_(	031357	cc,dd		ESTs
			1		Rattus norvegicus potassium inwardly rectifying	
	ĺ				channel,subfamily J, member 11	
						potassium inwardly-rectifying channel, subfamily J,
2273	18654	NM_0			335	member 11
				1	Rattus norvegicus potassium	
			l		inwardly rectifying	
	l		į		channel, subfamily J, member 11	potacojum invocedly matifying channel subfamily 1
2273	18655	NM 1	31358			potassium inwardly-rectifying channel, subfamily J, member 11
		<u></u> `			Rattus norvegicus Glutathione-	monipor 11
	j				S-transferase, alpha type (Ya)	
	0				(Gsta1), mRNA. 5/21Length =	
2274	25525	NM_(	<b>331509</b>	b,r [	1178	Glutathione-S-transferase, alpha type (Ya)

TABLE 1	1		, E		Atty. Ref. 44921-5090-01-WO/2105485
05010	01.00.15	GenBank Acc.		· 100 196 (1967)	
SEQ ID	GLGC IL	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	1			Rattus norvegicus Glutathione-	
			1	S-transferase, alpha type (Ya)	
0074			1.	(Gsta1), mRNA. 5/21Length =	
2274	634	NM_031509	d,r	1178	Glutathione-S-transferase, alpha type (Ya)
1	1			Rattus norvegicus Glutathione-	
	•		į.	S-transferase, alpha type (Ya)	1
2274		1404 004500	1.	(Gsta1), mRNA. 5/21Length =	
2274	635	NM_031509	d,r	1178	Glutathione-S-transferase, alpha type (Ya)
1				Rattus norvegicus Isocitrate	
			i	dehydrogenase 1, soluble	
2275	17/197	NM_031510	<b>.</b>	(ldh1),mRNA. 5/21Length =	
	11421	14141_031310	b,u,v	1719 Rattus norvegicus Janus kinase	Isocitrate dehydrogenase 1, soluble
				2 (a protein tyrosine	
1		]	}	kinase)(Jak2), mRNA.	
2276	12580	NM_031514	a,h,l,j,k,y,z	5/21Length = 3731	Janua kinana 3 /a anatain turani a 13
	.2000	001014	,, ., ., ., ., ., ., ., ., ., ., .,	Rattus norvegicus Janus kinase	Janus kinase 2 (a protein tyrosine kinase)
			1	2 (a protein tyrosine	1
		1	1	kinase)(Jak2), mRNA.	
2276	12581	NM_031514	y,z,hh	5/21Length = 3731	Janus kinase 2 (a protein tyrosine kinase)
			7,-,	Rattus norvegicus small	danus kinase z (a protein tyrosine kinase)
				inducible cytokine A2 (Scya2),	
2277	20448	NM_031530	a,d,z,ee,ff,ii,kk	mRNA. 11/22Length = 78	Small inducible gene JE
				Rattus norvegicus small	omaii inducible gene ve
				inducible cytokine A2 (Scya2),	
2277	20449	NM_031530	a,z,ee,ff,kk	mRNA. 11/22Length = 78	Small inducible gene JE
				Rattus norvegicus Serine	3
				protease inhibitor (Spin2c),	
2278	3292	NM_031531	a,j,k	mRNA.11/22Length = 261	Serine protease inhibitor
1 1				Rattus norvegicus Solute	
				carrier family 11 member 1	Solute carrier family 11 member 1 (natural
2070	4005	NIM 004507		(Slc11a1), mRNA. 11/22Length	resistance-associated macrophage protein 1), see
2279	1005	NM_031537	l,m	= 167	also D9Arb3
				Rattus norvegicus CD36	
]				antigen (collagen type I	0000 -10 / 11 / 1
				receptor, thrombospondin	CD36 antigen (collagen type I receptor,
2280	16040	NM_031541	n,o	receptor)-like 1 (Cd36i1),	thrombospondin receptor)-like 1 (scavanger
	10043	140 00 1041	11,0	mRNA. 1/22Length = 2497	receptor class B type 1)
	1			Rattus norvegicus Cytochrome	
				P45, subfamily 2e1(ethanol-	
				inducible) (Cyp2e1), mRNA.	Cytochrome P450, subfamily 2e1 (ethanol-
2281	4010	NM_031543		, , , , ,	inducible)
				go.,	
				Rattus norvegicus Cytochrome	
	ł			P45, subfamily 2e1(ethanol-	
					Cytochrome P450, subfamily 2e1 (ethanol-
2281	4011	NM_031543		11/22Length = 1624	inducible)
				Rattus norvegicus natriuretic	
	1			peptide precursor type B	
222	400			(Nppb),mRNA. 11/22Length =	
2282	18389	NM_031545	a,d,y,ee,ff	628	Brain natriuretic factor
	į		l	Rattus norvegicus nuclear	
		1		Iranscription factor - Y beta	
2283	1000	MM DOARES		(Nfyb),mRNA. 11/22Length =	
2200	1022	NM_031553	ii	734	CCAAT binding transcription factor of CBF-B/NFY-B

TABLE 1	2:1				Atty. Ref. 44921-5090-01-WO/2105485
SEV ID	GLGC ID	GenBank Acc.	Model C-3-	Khowa Ca-2012	Service of the Branch of the Service of
SECTIO	GEGC ID	INO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
	[		1	Rattus norvegicus Caveolin,	
			ì	caveolae protein, 22 kDa (Cav),	
2284	25795	NM_031556	jj,kk	mRNA. 11/22Length = 537	Caveolin, caveolae protein, 22 kDa
		!		Rattus norvegicus	
		•		Prostaglandin I2 (prostacyclin)	
0005	000		1	synthase (Ptgis), mRNA.	•
2285	692	NM_031557	s,t,11	11/22Length = 1618 Rattus norvegicus cd36 antigen	Prostaglandin I2 (prostacyclin) synthase
		ı	]	(Cd36), mRNA. 11/22Length =	CD36 antigen (collagen type I receptor,
2286	18315	NM_031561	e,u	2436	thrombospondin receptor)
			† · · · · · · · · · · · · · · · · · · ·	Rattus norvegicus cd36 antigen	инотребротан геоерагу
·				(Cd36), mRNA. 11/22Length =	CD36 antigen (collagen type I receptor,
2286	18316	NM_031561	е	2436	thrombospondin receptor)
	ĺ			Rattus norvegicus cd36 antigen	
2286	18317	NM_031561	r,aa,bb,ii	(Cd36), mRNA. 11/22Length = 2436	CD36 antigen (collagen type I receptor,
2200	10317	MM_001001	ı,aa,vu,ii	Rattus norvegicus cd36 antigen	thrombospondin receptor)
				(Cd36), mRNA. 11/22Length =	CD36 antigen (collagen type I receptor,
2286	18319	NM_031561	w,x	2436	thrombospondin receptor)
				Rattus norvegicus ribosomal	
			1	protein S7 (Rps7), mRNA.	
2287	9620	NM_031570	w,x,cc,dd	11/22Length = 65	ribosomal protein S7
				Rattus norvegicus Phosphorylase kinase, gamma	
ľ	1			1 (Phkg1), mRNA. 11/21Length	
2288	546	NM_031573	h,ii	= 1388	Phosphorylase kinase, gamma 1
				Rattus norvegicus P45	Troopriory assertantaso, garinna 1
				(cytochrome) oxidoreductase	
0000	4040			(Por), mRNA. 11/22Length =	
2289	1918	NM_031576	99	2441 Rattus norvegicus P45	P450 (cytochrome) oxidoreductase
	ł		1	(cytochrome) oxidoreductase	
ļ	1		!	(Por), mRNA. 11/22Length =	
2289	1920	NM_031576	s	2441	P450 (cytochrome) oxidoreductase
				Rattus norvegicus P45	
	1			(cytochrome) oxidoreductase	
2200	1004	NIM 024570		(Por), mRNA. 11/22Length =	DATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY
2289	1921	NM_031576	j,k,s,t	2441 Rattus norvegicus growth	P450 (cytochrome) oxidoreductase
1	ĺ			hormone releasing hormone	
1	ſ			(Ghrh),mRNA. 11/22Length =	
2290	942	NM_031577	u	616	growth hormone releasing hormone
				Rattus norvegicus growth	
Į	-			hormone releasing hormone	
2290	25702	NM_031577	l::	(Ghrh),mRNA. 11/22Length =	
ددعن	20193	1101 CO_DIPLE	lii	616 Rattus norvegicus testis	
	1			specific protein kinase 1	
.	ĺ		,	(Tesk1), mRNA. 11/22Length =	
2291	21715	NM_031578	aa	3581	testis specific protein kinase 1
ľ				Rattus norvegicus protein	
}	1			tyrosine phosphatase 4a1	
2292	24210	NM_031579	d o a y z bb	(Ptp4a1),mRNA. 11/22Length = 2638	anatain turnoing about the second
	272131	AINI_0010/8	d,p,q,y,z,kk	Rattus norvegicus glucose-6-	protein tyrosine phosphatase 4a1
- 1	-			phosphatase, transport protein 1	
1	l			(G6pt1), mRNA. 11/22Length =	
2293	5496	VM_031589	a,ee,ff	·	glucose-6-phosphatase, transport protein 1

TABLE 1			<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc.	Model Code	Known Considering	
OF OF 1D	Grige ID	140.	Model Code	Known Gene Name Rattus norvegicus glucose-6-	Unigene Sequence Cluster Title
				phosphatase, transport protein 1	
1		ļ		(G6pt1), mRNA. 11/22Length =	
2293	5497	NM_031589	ii	193	glucose-6-phosphatase, transport protein 1
				Rattus norvegicus squamous	
				cell carcinoma antigen	
0004				recognized by T-cells 1 (Sart1),	squamous cell carcinoma antigen recognized by T-
2294	14542	NM_031596	r	mRNA. 11/22Length = 2532	cells
				Rattus norvegicus squamous	
				cell carcinoma antigen	
] .				recognized by T-cells 1 (Sart1),	squamous cell carcinoma antigen recognized by T-
2294	14543	NM_031596	b,u,v	mRNA. 11/22Length = 2532	Icells
				Rattus norvegicus tyrosine 3-	
				monooxygenase/tryptophan 5-	
				monooxygenase activation	
				protein, epsilon polypeptide	tyrosine 3-monooxygenase/tryptophan 5-
				(Ywhae), mRNA. 11/22Length =	monooxygenase activatioprotein, epsilon
2295	19341	NM_031603	h,l	1771   Rattus norvegicus ATPase, H+	polypeptide
				transporting, lysosomal	
				noncatalytic accessory protein	ATPase, H+ transporting, lysosomal (vacuolar
				1a (Atp6n1a), mRNA.	proton pump) noncatalytic accessory protein 1
2296	20840	NM_031604	cc,dd	11/22Length = 3876	(110/160 kDa)
			00,00	T. T. L. C. G. G. C. C. C. C. C. C. C. C. C. C. C. C. C.	(116,100 KBG)
				Rattus norvegicus phosphatase	
<b>!</b>				and tensin homolog (Pten),	phosphatase and tensin homolog (mutated in
2297	11296	NM_031606	f	mRNA.11/22Length = 1212	multiple advanced cancers 1)
				Rattus norvegicus	
				neuroblastoma, suppression of	
2298	40000	NIM 034000	- 4 7 1.3.	tumorigenicity1 (Nbl1), mRNA.	Neuroblastoma, suppression of tumorigenicity 1
2290	19022	NM_031609	s,t,jj,kk	11/22Length = 1788   Rattus norvegicus thioredoxin	(DNA segment human D1S1733E)
				reductase 1 (Txnrd1),	
2299	24234	NM_031614	r,y,z,jj,kk	mRNA.11/22Length = 336	thioredoxin reductase 1
			·171-1111111	Rattus norvegicus thioredoxin	Thoredoxin reductase 1
				reductase 1 (Txnrd1),	
2299	24235	NM_031614	y,z,kk	mRNA.11/22Length = 336	thioredoxin reductase 1
				Rattus norvegicus mitogen-	
				activated protein kinase 6	
0000	44057	1114 004000		(Mapk6), mRNA. 11/22Length =	
2300	1495/	NM_031622	T	3662   Rattus norvegicus growth factor	mitogen-activated protein kinase 6
				receptor bound protein 14	
				(Grb14), mRNA. 11/22Length =	
2301	15767	NM_031623	aa,bb,jj,kk,ll	195	growth factor receptor bound protein 14
			3 1111111111	Rattus norvegicus	grammasian receptor country protein 1.
				immunoglobulin binding protein	
•				1 (lgbp1), mRNA. 11/22Length =	
2302	21772	NM_031624	y,z		immunoglobulin (CD79A) binding protein 1
				Rattus norvegicus nuclear	
				receptor subfamily 4, group A,	
2202	E07	NIM D34COD		member 3 (Nr4a3), mRNA.	and a section of the section of
2303	707	NM_031628	p,q		nuclear receptor subfamily 4, group A, member 3
				Rattus norvegicus core promoter element binding	
				protein (Copeb), mRNA.	
2304	1727	NM_031642	jj,kk	C	core promoter element binding protein
	لنتنسب		<i></i>		coro promotor oromoni amunig protoni

TABLE 1		ICanDarli Arr			Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID	GenBank Acc.	Model Code	Known Gene Name	
SEG ID	GEGC ID	INO.	Model Code		Unigene Sequence Cluster Title
		į	į.	Rattus norvegicus receptor	
				(calcitonin) activity modifying protein 2 (Ramp2), mRNA.	
2305	16062	NM_031646			
2000	10002	11111_031040	n,o	11/22Length = 751 Rattus norvegicus MYB binding	receptor (calcitonin) activity modifying protein 2
			I	protein 1a (Mybbp1a), mRNA.	
2306	17448	NM_031668	h,l	11/22Length = 3834	MVD hinding applein (D4CO) 4 a
2000	17170	1410_031000	111,1	Rattus norvegicus actinin alpha	MYB binding protein (P160) 1a
				4 (Actn4), mRNA. 11/22Length	
2307	5358	NM_031675	l _r	= 2996	Actinin, alpha 4
			·	Rattus norvegicus transgelin 3	Problim, alpha 4
ì			1	(Tagln3), mRNA. 1/22Length =	į
2308	19909	NM_031676	ii	12	EST
				Rattus norvegicus four and a	
			ļ	half LIM domains 2 (FhI2),	
2309	18403	NM_031677	d,jj,kk	mRNA.11/22Length = 84	four and a half LIM domains 2
				Rattus norvegicus period	
				homolog 2 (Per2), mRNA.	
2310	15041	NM_031678	jj,kk	11/22Length = 5761	period homolog 2 (Drosophila)
				Rattus norvegicus solute carrier	
				family 29, member 1 (Slc29a1),	solute carrier family 29 (nucleoside transporters),
2311	20743	NM_031684	a,x,z,kk	mRNA. 11/22Length = 1766	member 1
1	1			Rattus norvegicus crystallin,	
		· .		beta B3 (Crybb3), mRNA.	
2312	8844	NM_031690	b	11/22Length = 747	crystallin, beta B3
İ				Rattus norvegicus	
0040	40000	NI 004005		sialyltransferase 5 (Siat5),	
2313	16663	NM_031695	S	mRNA. 11/22Length = 2725	sialyltransferase 5
l		į		Rattus norvegicus ribophorin 2	
2314	21575	NM_031698		(Rpn2), mRNA. 1/22Length = 2234	, , , ,
23141	21373	14141_031090	w,x	Rattus norvegicus ribosomal	ribophorin II
]	1			protein S8 (Rps8), mRNA.	
2315	16204	NM_031706	f,g,jj,kk	11/22Length = 696	ribasamal pratain CQ
20.0	10201	1410-001700	1,9,5,1,1	Rattus norvegicus ribosomal	ribosomal protein S8
	ł			protein S8 (Rps8), mRNA.	
2315	16205	NM_031706	ji,kk	11/22Length = 696	ribosomal protein S8
			л·	Rattus norvegicus homer,	incoonia proteir oo
	1			neuronal immediate early gene,	
	ĺ	ļ		1(Homer1), mRNA. 11/22Length	
2316	18054	NM_031707	f,g,n,o		RuvB-like protein 1
			-	Rattus norvegicus homer,	
	l			neuronal immediate early gene,	
- 1	ſ	j		1(Homer1), mRNA. 11/22Length	
2316	18057	NM_031707	r	= 45	RuvB-like protein 1
ľ	Ì			Rattus norvegicus homer,	
j				neuronal immediate early gene,	
				1(Homer1), mRNA. 11/22Length	
2316	18059	NM_031707	p,q,ee,ff	= 45	RuvB-like protein 1
}	1	l	1	Rattus norvegicus adhesion	
2247	24004	NM 024700		regulating molecule 1 (Adrm1),	<u> </u>
2317	24001	NM_031708	e e		glycoprotein 110
- 1	1	}		Rattus norvegicus ribosomal	
2318	160191	NIM 031700		protein \$12 (Rps12), mRNA.	lettere and the company
2310	109101	NM_031709	g,h,l,w,x	11/22Length = 499	ribosomal protein S12
- (	į	1		Rattus norvegicus olfactory	
2319	20210	NM_031710		receptor 41 (Olfr41),	alfordani mandar 44
2010	20210	111 001110	u,v	mRNA.11/22Length = 984	olfactory receptor 41

TABLE 1			<del>- 71 7 - 7</del>		Atty: Ref. 44921-5090-01-W0/2105485
350 15	01.00.10	GenBank Acc.			
SEQ:ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		]	,	Rattus norvegicus	
			ł	phosphofructokinase, muscle	
2320	13/10	NM_031715	ii be	(Pfkm), mRNA.11/22Length =	
2320	1040	14W_031713	jj,kk	2757   Rattus norvegicus chloride	phosphofructokinase, muscle
1				channel, nucleotide-sensitive,	}
]				1A(Cins1a), mRNA.	
2321	19048	NM_031719	jj,kk	11/22Length = 1399	chloride channel, nucleotide-sensitive, 1A
			,,, <u>.</u>	- Wallength 1000	onlonde channel, nocieotide-sensitive, 17
				Rattus norvegicus	·
1				serine/threonine kinase 3 (Stk3),	serine/threonine kinase 3 (Ste20, yeast homolog)
2322	15507	NM_031735	u	mRNA.11/22Length = 261	sткз
				Rattus norvegicus activated	
			(	leukocyte cell adhesion	
0000	00704	NIL 001750		molecule (Alcam), mRNA.	
2323	20724	NM_031753	d	11/22Length = 2866	activated leukocyte cell adhesion molecule
		1	)	Pottus populacione matrix	
				Rattus norvegicus matrix metalloproteinase 24	
				(membrane-inserted) (Mmp24),	
2324	16003	NM_031757	c	mRNA. 11/22Length = 4245	matrix metalloproteinase 24 (membrane-inserted)
-521	.5555	551101	-	Rattus norvegicus guanine	metalioproteinase z4 (illenibrane-inserted)
				deaminase (Gda), mRNA.	
2325	14184	NM_031776	kk	11/22Length = 1568	guanine deaminase
				Rattus norvegicus guanine	
1 1				deaminase (Gda), mRNA.	
2325	14185	NM_031776	kk	11/22Length = 1568	guanine deaminase
1				Rattus norvegicus potassium	
] ]				channel regulatory protein	]
2326	4225	NINA 024704		KChAP (83614), mRNA.	
2320	4323	NM_031784	d	12/21Length = 2927 Rattus norvegicus ATPase, H+	potassium channel regulatory protein KChAP
}				transporting, lysosomal(vacuolar	
	į			proton pump), subunit 1	
1				(Atp6s1), mRNA. 5/21Length =	ATPase, H+ transporting, lysosomal (vacuolar
2327	16178	NM_031785		289	proton pump), subunit 1
				Rattus norvegicus NF-E2-	
	ĺ			related factor 2 (Nfe2l2),	
2328	1169	NM_031789	đ	mRNA.5/21Length = 237	NF-E2-related factor 2
	1	Ì		Rattus norvegicus NF-E2-	
2220	1170	NIM 024700		related factor 2 (Nfe2l2),	N==0 1.146 1.0
2328	1170	NM_031789	d,l,m,jj,kk	mRNA.5/21Length = 237	NF-E2-related factor 2
2329	1182	NM_031790	b,l,m	Rattus norvegicus citron (Cit),	postovnostio dogojtv protoje (-it)
2023	1102	14181_001780	U,1,111	mRNA. 11/22Length = 5952	postsynaptic density protein (citron)
			i	Rattus norvegicus kangai 1	ESTs, Kangai 1 (suppression of tumorigenicity 6,
	ĺ			(Kai1), mRNA. 11/22Length =	prostate; CD82 antigen (R2 leukocyte antigen,
2330	15864	NM_031797		174	antigen detected by monoclonal and antibody (A4))
					22.05.05.2 J
-	ĺ		1	Rattus norvegicus solute carrier	
	1			family 12, member 2 (Slc12a2),	1
2331	2114	NM_031798			solute carrier family 12, member 2
	1	1		Rattus norvegicus defensin	
2220	40455	NIA 024040		beta 1 (Defb1), mRNA.	
2332	70155	NM_031810		5/22Length = 416	defensin beta 1
1	ł	ţ		Rattus norvegicus	,
. [	į	Ţ		osteomodulin (osteoadherin)	
2333	15840	NM_031817		(Omd), mRNA. 5/21Length = 1536	actoomedulin (actored barin)
2000	10040	110100_011	12,1	1000	osteomodulin (osteoadherin)

TABLE	1 1	IConDonk As	100		Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC I	GenBank Ac		Known Gene Name	1. 7. 20.00 10 10 10 10 10 10 10 10 10 10 10 10 1
JE G ID	020018	AINO.	iviogei code		Unigene Sequence Cluster Title
	İ	1	İ	Rattus norvegicus serum-	
2334	265	NM_031821	la .	inducible kinase (Snk), mRNA.	
200-	203	JNW_031621	d	11/22Length = 2781	serum-inducible kinase
	[	İ		Rattus norvegicus lectin,	
				galactose binding, soluble	1
2335	22324	NM_031832	0 6 1 5 5 1 14	3(Lgals3), mRNA. 5/22Length	1.
2000	2232	11111_031032	a,h,l,n,o,x,kk	948 Rattus norvegicus	lectin, galactose binding, soluble 3
				sulfotransferase family 1A,	
	l			phenol-preferring, member 1	
2336	1740	NR4 024024	L	(Sult1a1), mRNA. 1/22Length =	, and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
	4/40	NM_031834	s,t,aa,bb	1227	member 1
			}	Rattus norvegicus	
		İ		sulfotransferase family 1A,	
			ŀ	phenol-preferring, member 1	Aryl sulfotransferase cytosolic, 1A, phenol-
2226	4740		1	(Sult1a1), mRNA. 1/22Length =	, o ,
2336	4/49	NM_031834	t,bb	1227	phenol-preferring, member 1
				Rattus norvegicus vascular	
			1	endothelial growth factor	
0227	0004	NII 4 00 4 00 0		(Vegf),mRNA. 11/22Length =	
2337	8384	NM_031836	gg,ll	645	vascular endothelial growth factor
- 1				Rattus norvegicus vascular	
-				endothelial growth factor	1
0007			1	(Vegf),mRNA. 11/22Length =	
2337	8385	NM_031836	s,t,gg	645	vascular endothelial growth factor
İ				Rattus norvegicus vascular	
ı				endothelial growth factor	
0007	2000			(Vegf),mRNA. 11/22Length =	
2337	8386	NM_031836	11	645	vascular endothelial growth factor
	1			Rattus norvegicus ribosomal	
0000	40000		<b>l</b>	protein S2 (Rps2), mRNA.	Í
2338	10269	NM_031838	h,I,w,x	11/22Length = 817	ribosomal protein S2
ľ			1	Rattus norvegicus stearoyl-	
1	1		1	Coenzyme A desaturase 2	
0000	450		1	(Scd2),mRNA. 5/22Length =	Rat DNA polymerase alpha mRNA, 3' end, stearo
2339	15077	NM_031841	ļii	555	Coenzyme A desaturase 2
- 1				Rattus norvegicus Calmodulin 1	
	- 1			(phosphorylase kinase, delta)	
				(Calm1), mRNA. 11/22Length =	
2340	19190	VM_031969	h,i	3513	Calmodulin 1 (phosphorylase kinase, delta)
	- 1			Rattus norvegicus Calmodulin 1	
1	1		1	(phosphorylase kinase, delta)	
	]		1	(Calm1), mRNA. 11/22Length =	•
2340	19191	VM_031969	h,l	3513	Calmodulin 1 (phosphorylase kinase, delta)
	Ī			Rattus norvegicus Calmodulin 1	n
- 1			ł	(phosphorylase kinase, delta)	
	1		}	(Calm1), mRNA. 11/22Length =	
2340	19195	IM_031969	h,l,ll	3513	Calmodulin 1 (phosphorylase kinase, delta)
				Rattus norvegicus Calmodulin 1	(prisoprior ficae finase, deta)
- [	i			(phosphorylase kinase, delta)	
- 1				(Calm1), mRNA. 11/22Length =	
2340	25802	IM_031969	h,i,aa,bb,li	1	Calmodulin 1 (phosphorylase kinase, delta)
		· · · · · · · · · · · · · · · · · · ·			ESTs, Moderately similar to hypothetical protein
	[			I	MGC10974 [Homo sapiens] [H.sapiens], heat shoo
2341	17734 N	M_031970	a,o,q,ee,ff,kk	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	мостов/4 (нотю sapiens) (н.sapiens), neat snoc 27kD protein 1
			· - i 4/ - minim		ESTs, Moderately similar to hypothetical protein
			i		
ł				27 kDa protein (Hsp27), mRNA.	MGC10974 [Homo sapiens] [H.sapiens], heat shoc

TABLE 1	· .			•		Atty. Ref. 44921-5090-01-WO/2105485
050.12	0.65	Ger	Bank Acc.			
SEQ ID:	GLGC I	No.		Model Code	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Unigene Sequence Cluster Title
1		1			Rattus norvegicus Heat shock	
2341	1773	MINIS	_031970	a,l,o,q,ee,ff,k	27 kDa protein (Hsp27), mRNA	i in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
	1773	SI AIVI_	_001010	10,1,0,4,66,11,K	k 11/22Length = 787 Rattus norvegicus Heat shock	27kD protein 1
					protein 7-1 (Hspa1a),	ESTs Highly similar to 0404, San San San
2342	147	MM	_031971	a,p,q,ee,ff	mRNA.5/21Length = 2455	ESTs, Highly similar to S10A_RAT S-100 protein,
		1		-,1214120111	Rattus norvegicus Heat shock	alpha chain [R.norvegicus], Heat shock protein 70-1
		1			protein 7-1 (Hspa1a),	-
2342	8661	MN	_031971	e,ee,ff,gg	mRNA.5/21Length = 2455	Heat shock protein 70-1
					Rattus norvegicus Heat shock	ricut shock protest 70-1
				1	protein 7-1 (Hspa1a),	
2342	8662	NM_	031971	ee,ff,gg	mRNA.5/21Length = 2455	Heat shock protein 70-1
7					Rattus norvegicus Heat shock	Proton 10 1
	_	L			protein 7-1 (Hspa1a),	
2342	8663	NM_	031971	ee,ff,gg	mRNA.5/21Length = 2455	Heat shock protein 70-1
					Rattus norvegicus Aldehyde	1 11 11 11 11 11 11 11 11 11 11 11 11 1
					dehydrogenase family 3,	
2045	0.00	l	00.405:-		subfamily A1 (Aldh3a1), mRNA.	. į
2343	24644	MM_	031972	cc,dd	11/22Length = 1725	Aldehyde dehydrogenase class 3
					Rattus norvegicus clathrin, light	
2244	47075	NIR4 -	024074		polypeptide (Lca) (Clta),mRNA.	
2344	1/0/5	IAIN_	031974	99	11/22Length = 1124	clathrin light chain
		1			Rattus norvegicus	
2345	17556	NINA A	031975	ik	parathymosin (Ptms), mRNA.	
2040	17330	ININI_(	021913	j,k	11/22Length = 936	parathymosin
					Rattus norvegicus protein	
					kinase, AMP-activated, beta	
1			1		1non-catalytic subunit (Prkab1),	·
2346	17601	NM (	031976	a,jj,kk	mRNA. 11/22Length = 1978	5' AMP activated protein Hissan has autom
					Rattus norvegicus calbindin 1	5'-AMP-activated protein kinase, beta subunit
					(Calb1), mRNA. 11/22Length =	
2347	18499	NM_0	31984	aa,bb	228	cerebellar Ca-binding protein, spot 35 protein
					Rattus norvegicus calbindin 1	Service on princing protein, spot 30 protein
	ļ		,		(Calb1), mRNA. 11/22Length =	·
2347	18500	NM_C	31984	bb	228	cerebellar Ca-binding protein, spot 35 protein
	Ī				Rattus norvegicus S6 kinase	
			1		(Rps6kb1), mRNA. 5/21Length	
2348	18898	NM_0	31985 i	<u>i</u>	= 2287	S6 kinase
	ļ		1		Rattus norvegicus S6 kinase	
22.5	40000		.		(Rps6kb1), mRNA. 5/21Length	
2348	18899	NM_0	პ1985   ც	<b>1</b> 9	= 2287	S6 kinase
ľ					Rattus norvegicus syntenin	
2240	10700	un o	24000		(Sdcbp), mRNA. 5/21Length =	
2349	19768	AIM_O	31986 f	,g,cc,dd	277	syntenin
			1		Rattus norvegicus carnitine O-	
2350	20554	dra o	31097		octanoyitransferase (Crot),	
2000	200041	AINI_O	01301	,l,m,aa,cc,dd	mRNA.11/22Length = 2681	carnitine O-octanoyltransferase
- 1	ı			ŀ	Rattus norvegicus carnitine O-	
2350	20555	M O	31987		octanoyltransferase (Crot),	
	20001	0	J. 1001	<u>N</u>	mRNA.11/22Length = 2681 Rattus norvegicus RalA binding	carnitine O-octanoyltransferase
			- 1	j		
2351	21807	IM O	32067		protein 1 (Ralbp1), mRNA.5/21Length = 3622	Dala biadian mastata A
			<u> </u>	3	Rattus norvegicus RalA binding	RalA binding protein 1
	1		}		protein 1 (Ralbp1),	1
2351	21809	IM, 03	32067		5111 5501	PalA hinding protoin 1
						RalA binding protein 1

TABLE 1	· ;				Atty. Ref. 44921-5090-01;:WO/2105485
CEOID	GLGC ID	GenBank Acc.			
SECTIO	GEGC ID	INO.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
ř			1	Rattus norvegicus synaptojanin	
2352	1171	NIA 022074	l	2 (Synj2), mRNA. 11/22Length =	
2552	11/1	NM_032071	y,z	533 Rattus norvegicus aldehyde	synaptojanin II
1		ļ	1	dehydrogenase 2 (Aldh2),	
2353	12299	NM_032416	c	mRNA. 11/22Length = 1889	aldahyda dahydraganaga 2. mitash an ti-1
		662776	<u> </u>	Rattus norvegicus vesicle	aldehyde dehydrogenase 2, mitochondrial
				associated protein (VAP1),	
2354	21102	NM_033021	lu 💮	mRNA.7/21Length = 4422	vesicle associated protein
	-			Rattus norvegicus vesicle	
		•		associated protein (VAP1),	
2354	21103	NM_033021	s	mRNA.7/21Length = 4422	vesicle associated protein
				Rattus norvegicus vesicle	
2254	04404			associated protein (VAP1),	
2354	21104	NM_033021	s,t	mRNA.7/21Length = 4422	vesicle associated protein
				Rattus norvegicus Protein phosphatase type 1B (formely	
				2C), Mg-dependent, beta	
				isoform (Ppm1b), mRNA.	Protein phosphatase type 1B (formely 2C), Mg-
2355	25529	NM 033096	n,o	7/21Length = 3257	dependent, beta isoform
		7		Rattus norvegicus Protein	dependent, beta isolom
} }				phosphatase type 1B (formely	
]				2C), Mg-dependent, beta	
				isoform (Ppm1b), mRNA.	Protein phosphatase type 1B (formely 2C), Mg-
2355	25569	NM_033096	r	7/21Length = 3257	dependent, beta isoform
				Rattus norvegicus Protein	
1				phosphatase type 1B (formely	
				2C), Mg-dependent, beta	<u> </u>
2355	101/18	NM_033096	h,i	isoform (Ppm1b), mRNA.	Protein phosphatase type 1B (formely 2C), Mg-
2000	13140	14IM_033030	11,1	7/21Length = 3257 Rattus norvegicus Hemoglobin,	dependent, beta isoform
				beta (Hbb), mRNA. 12/21Length	•
2356	25468	NM_033234	b,c,v	= 62	Hemoglobin, beta
				Rattus norvegicus Hemoglobin,	, romegiosan, socia
				beta (Hbb), mRNA. 12/21Length	
2356	17829	NM_033234	С	= 62	Hemoglobin; beta
	1			Rattus norvegicus Hemoglobin,	
22.50	477000			beta (Hbb), mRNA. 12/21Length	
2356	1/832	NM_033234	b,c,v	= 62	Hemoglobin, beta
	1	]		Rattus norvegicus Hemoglobin,	
2356	25460	NM_033234	b,c,v	beta (Hbb), mRNA. 12/21Length = 62	
	20703	000204	υ ₁ υ, <b>ν</b>	= 62 Rattus norvegicus Proteasome	
	ļ	1		(prosome, macropain) 26S	
	İ	1		subunit, ATPase (Psmc2),	Proteasome (prosome, macropain) 26S subunit,
2357	2577	NM_033236		mRNA. 8/21Length = 143	ATPase
				Rattus norvegicus galanin	
	]	1		(Gal), mRNA. 11/22Length =	1
2358	23715	NM_033237 j	,k,y,z,jj,kk	699	galanin
•	}	. 1		Rattus norvegicus Fc receptor,	
	- 1	į		IgG, alpha chain transporter	
2250	12204	NIM 022254		(Fcgrt), mRNA. 11/22Length =	<u> </u>
2359	12304	NM_033351	e,y,z,ee,ff	1552	Fc fragment immunoglobulin G receptor
		-		Rattus norvegicus Fc receptor, IgG, alpha chain transporter	i
				(Fogrt), mRNA. 11/22Length =	1
2359	12365	NM_033351			Fo fragment immunoglobulin G recenter
	000	000001 [6		1002	Fc fragment immunoglobulin G receptor

TABLE 1		10-0-14	\$19.5 <u>.</u>		Atty. Ref44921-5090-01-WO/2105485
SEQ ID	CLCCIE	GenBank Acc.	1 1		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
SEM IN	GLGC IE	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus ATP-binding	
		1		cassette, sub-family D (ALD),	
		1		member 2 (Abcd2), mRNA.	
2360	11714	NM_033352	kk	11/22Length = 5531	ESTs
		1		Rattus norvegicus PRKC,	
			1	apoptosis, WT1, regulator	
		1		(Pawr), mRNA.11/22Length =	
2361	23895	NM_033485	aa	2122	Prostate apoptosis response protein 4
				Rattus norvegicus eukaryotic	Topone protein :
				translation elongation factor	
				1alpha 2 (Eef1a2), mRNA.	
2362	24420	NM_033539	jj,kk,ll	11/22Length = 144	eukaryotic translation elongation factor 1 alpha 1
				Rattus norvegicus eukaryotic	y and a serior goal indicer a dipital i
				translation elongation factor	•
				1alpha 2 (Eef1a2), mRNA.	
2362	24419	NM_033539	jj,kk	11/22Length = 144	eukaryotic translation elongation factor 1 alpha 1
				Rattus norvegicus Insulin-like	jest destates congettor respira r
į				growth factor 1 receptor (lgf1r),	
2363	25072	NM_052807	j,k	mRNA. 1/21Length = 4696	Insulin-like growth factor 1 receptor
				Rattus norvegicus Pancreatitis-	and ground taolor i receptor
				associated protein 1	ESTs, Weakly similar to R02D3.2.p
- 1				(Pap1),mRNA. 11/21Length =	[Caenorhabditis elegans] [C.elegans], Pancreatitis-
2364	15867	NM_053289	a,h,l,w,x	781	associated protein 1
			-7-11-11-1	Rattus norvegicus	associated protein 1
				Phosphoglycerate kinase 1	
1				(Pgk), mRNA. 11/22Length =	
2365	1311	NM_053291	le	1675	phosphoglycerate kinase 1
				Rattus norvegicus Adenosine	phosphogrycerate kinase i
1				A2a-receptor (Adora2a), mRNA.	
2366	1596	NM_053294	r	4/22Length = 2373	Adenosine A2a-receptor
					Additional Aza-receptor
			1	Rattus norvegicus	
1					ESTs, Weakly similar to dual-specificity
2367	20235	NM_053302	cc,dd	mRNA. 11/22Length = 1197	phosphatase [Mus musculus] [M.musculus]
				Rattus norvegicus homer,	prospriatase [was musculus] [w.:musculus]
1	- 1		İ	neuronal immediate early gene,	
ľ				2(Homer2), mRNA. 11/22Length	
2368	15748	NM_053309			homer, neuronal immediale early gene, 2
				Rattus norvegicus enigma	nomer, neuronal inineulale early gene, 2
	1		l l	homolog (Enh), mRNA.	
2369	7207	NM_053326			enigma homolog
				Rattus norvegicus basic helix-	опідна поноюў
1	ſ			loop-helix domain	
	]			containing,class B2 (Bhlhb2),	
2370	1063	NM_053328			hooie heliudaaa kaliudaaa Yaasaa
	500	000020		Rattus norvegicus ribosomal	basic helix-loop-helix domain containing, class B2
				~ ,	
2371	14927	NM_053330		protein L21 (Rpl21), mRNA. 11/22Length = 554	ribanamal mastain 104
	1021	000000		Rattus norvegicus ribosomal	ribosomal protein L21
.	1			protein L21 (Rpl21), mRNA.	
2371	149201	VM_053330			
	170201	111_00000			ribosomal protein L21
	1			Rattus norvegicus resistin like	
2272	2674	IN 052222		alpha (Retnia), mRNA.	
2372	20/4	NM_053333		11/22Length = 54	resistin like alpha
	-	†		Rattus norvegicus Ras-related	
1	- 1	1		associated with diabetes	
2373	4000	IN OFFICE		Rrad),mRNA. 11/22Length =	
Z3/3[	16091	√M_053338  j	,p,q,y,z 1	421	Ras-related associated with diabetes

TABLE 1	1.1	<del></del>	n na		Atty. Ref. 44921-5090-01-WO/2105485
0-0.5		GenBank Acc		11.10000000000000000000000000000000000	7/my 103/ 102/ 0000-01/V/O/2/103463
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		1		Rattus norvegicus general	
				transcription factor IIa, 2	
2274	40040		ļ.,	(12kDsubunit) (Gtf2a2), mRNA	
2374	18949	NM_053345	lii	11/21Length = 33	general transcription factor IIa, 2 (12kD subunit)
				Rattus norvegicus nuclear	
		1		distribution gene E	
2375	0352	NM_053347	ļ.,	homolog(Aspergillus) (Nude),	
2010	3332	11101_03347	u,v	mRNA. 11/22Length = 2153	nuclear distribution gene E homolog (Aspergillus)
			1	Pattus nonceious II	
				Rattus norvegicus procollagen type I, alpha 2 (Col1a2),mRNA.	<b>,</b>
2376	6154	NM_053356	f,g	11/22Length = 4474	
			lia	1 022Lengin - 44/4	procollagen, type I, alpha 2
				Rattus norvegicus procollagen,	
			1	type I, alpha 2 (Col1a2),mRNA.	' <b> </b>
2376	6155	NM_053356	g	11/22Length = 4474	procollagen, type I, alpha 2
			<u> </u>	That significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant significant s	procollager, type i, alpha z
1	i			Rattus norvegicus procollagen,	
1				type I, alpha 2 (Coi1a2),mRNA.	
2376	6156	NM_053356	g	11/22Length = 4474	procollagen, type I, alpha 2
1					
				Rattus norvegicus procollagen,	
				type I, alpha 2 (Col1a2),mRNA.	. 1
2376	6157	NM_053356	f,g	11/22Length = 4474	procollagen, type I, alpha 2
1 1	-				
1				Rattus norvegicus procollagen,	1
2276	25404	NINA OFFICE		type I, alpha 2 (Col1a2),mRNA.	]
2376	25184	NM_053356	[1	11/22Length = 4474	
				Rattus norvegicus fatty acid	
2377	19512	NM_053365	ii	binding protein 4 (Fabp4),	
	10012	41VI_000000	<u>"</u>	mRNA. 11/22Length = 6 Rattus norvegicus transcription	adipocyte lipid-binding protein
1	1			factor 4 (Tcf4), mRNA.	
2378	622	VM_053369		1/22Length = 259	transposintion feater 4
				Rattus norvegicus transcription	transcription factor 4
				factor 4 (Tcf4), mRNA.	
2378	623	VM_053369		1/22Length = 259	transcription factor 4
					a criscipatori racioi 4
				Rattus norvegicus nerve growth	'
		ŀ	1	factor receptor (TNFRSF16)	
				associated protein 1 (Ngfrap1),	
2379	16017	IM_053401		D114 444001	brain expressed X-linked 3
	1	1			
	1			Rattus norvegicus nerve growth	1
-	1	İ	ļi	factor receptor (TNFRSF16)	
2270	16040	N 053454	. ]:	associated protein 1 (Ngfrap1),	l l
2379	IOUIRIN	IM_053401		mRNA. 11/22Length = 519	brain expressed X-finked 3
		1		Rattus norvegicus	
.		į		diacylglycerol O-acyltransferase	
2380	14621 N	M_053437		l (Dgat1), mRNA. 11/22Length	
	1702111	IVI_000437		= 1751 Rattus norvegicus histone	diacylglycerol acyltransferase
				deacetylase 3 (Hdac3), mRNA.	1
2381	6712 N	M_053448	cc,dd		hiotona danastulas 2
				Rattus norvegicus nucleobindin	histone deacetylase 3
l				Nucb), mRNA. 11/22Length =	
2382	4622 N	M_053463			nucleobindin
			<u> </u>	·	HUCICODIIIUII

TABLE 1	<i></i>	,			Atty. Ref. 44921-5090-01-WO/2105485
	14	GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus cytochrome	
	_			c oxidase, subunit 4b (Cox4b),	
2383	21866	NM_053472	u,v	mRNA. 11/22Length = 74	cytochrome c oxidase, subunit IVb
			1	Rattus norvegicus spinophilin	
0004	24400			(LOC84686), mRNA.	
2384	21498	NM_053474	99	11/21Length = 455	spinophilin
				D.W.	
				Rattus norvegicus karyopherin	
2385	15556	NM_053483		(importin) alpha 2 (Kpna2),	
2300	13330	14W_033463	kk	mRNA. 11/22Length = 1886 Rattus norvegicus calcium	karyopherin (importin) alpha 2
			ĺ	binding protein A6	
	•			(calcydin)(S1a6), mRNA.	
2386	16394	NM_053485	h,I,w,x	11/21Length = 291	calcium binding protein A6 (calcyclin)
			111111111	Rattus norvegicus transporter-	calcidit binding protest Ao (calcyclin)
				like protein (Ctl1),	
2387	14904	NM_053492	s,t	mRNA.11/21Length = 2849	transporter-like protein
				Rattus norvegicus unknown Glu	
				Pro dipeptide repeat	
				protein(LOC85383), mRNA.	
2388	16135	NM_053516	aa,bb	11/21Length = 1876	unknown Glu-Pro dipeptide repeat protein
				Rattus norvegicus	
				homocysteine-inducible,	·
				endoplasmic reticulum stress-	
				inducible, ubiquitin-like domain	
0000	40000	050500		member 1 (Herpud1), mRNA.	homocysteine-inducible, endoplasmic reticulum
2389	18826	NM_053523	bb	11/21Length = 1857	stress-inducible, ubiquitin-like domain member 1
				Rattus norvegicus Kruppel-like	
2390	14290	NM_053536		factor 15 (KIf15), mRNA.	
2330	14300	MM_033330	e,y,z	11/22Length = 2458   Rattus norvegicus solute carrier	Kruppel-like factor 15 (kidney)
				family 22 (organic anion	
				transporter), member 7	
1 1	1			I	solute carrier family 22 (organic anion transporter),
2391	31	NM_053537	b	191	member 7
					monbor /
	1			Rattus norvegicus pyruvate	
1	İ	İ	e,n,o,p,q,r,aa,	dehydrogenate kinase 4 (Pdk4),	
2392	15829	NM_053551	bb	mRNA.11/22Length = 1435	pyruvate dehydrogenase kinase, isoenzyme 4
	T			Rattus norvegicus synaptogyrin	
				2 (Syngr2), mRNA. 11/21Length	
2393	17298	NM_053553	cc,dd	= 118	synaptogyrin 2
]	- 1			Rattus norvegicus vesicle-	
	l	]		associated membrane protein 5	
0004	44040			(Vamp5), mRNA. 11/21Length =	
2394	11843	NM_053555	n,o,s	39	vesicle-associated membrane protein 5
	- 1	j		Rattus norvegicus nuclear RNA	
				helicase, DECD variant of	THE PLAN PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE
2395	4327	NM_053563	2 n 2 v = 8 t-1-	DEADbox family (Ddxl), mRNA. 11/21Length = 1511	nuclear RNA helicase, DECD variant of DEAD box
2000	4321	NIVI_000000	a,n,o,y,z,jj,kk	Rattus norvegicus cytokine	family
	- 1	1		inducible SH2-containing protein	
	İ	1		3 (Cish3), mRNA. 11/21Length	
2396	15708	NM_053565	p,q,y,z	l 1 '	cytokina inducible SH2 containing protein 3
			F141714	Rattus norvegicus phosphate	cytokine inducible SH2-containing protein 3
	1	1		cytidylyltransferase 2,	<b> </b>
		1		ethanolamine (Pcyt2), mRNA.	
2397	21940	NM_053568	f		phosphate cytidylyltransferase 2, ethanolamine
					prooprieto ojudjijinariorolase z, culariolarnile

TABLE 1	1		e: ,		Atty. Ref::44921-5090-01-WO/2105485
		GenBank Acc.			(11):1101.41021-5030-0 (-1100483
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1				Rattus norvegicus	
		ŀ		peroxiredoxin 5 (Prdx5), mRNA	
2398	19252	NM_053576	а	1/22Length = 1414	peroxiredoxin 5
			1	Rattus norvegicus fatty acid	
0000				transport protein (Slc27a1),	
2399	653	NM_053580	aa,bb	mRNA. 11/21Length = 398	fatty acid transport protein
1		]		Rattus norvegicus	
1 1				glucocorticoid-inducible protein	
2400	3040	NIM DESERT	12.43.0	(gis5),mRNA. 11/21Length =	
	3045	NM_053582	j,k,t,kk	1869	glucocorticoid-inducible protein
				Rattus norvegicus	
ł i		j		glucocorticoid-inducible protein	ĺ
2400	3050	NM_053582	j,k,t,kk	(gis5),mRNA. 11/21Length = 1869	I down and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta
2.00		14141_000002	J,K,t,KK	Rattus norvegicus Olf-1/EBF	glucocorticoid-inducible protein
1 1				associated Zn finger protein	:
			1	Roaz(Roaz), mRNA.	
2401	24875	NM_053583	ii,jj,kk	11/21Length = 4665	Olf-1/EBF associated Zn finger protein Roaz
		=	1.181	Rattus norvegicus MAP-kinase	On-MEDI associated 211 iniger protein Roaz
1			1	activating death domain	
				(Madd),mRNA. 11/21Length =	
2402	21170	NM_053585	s,t	5249	MAP-kinase activating death domain
				Rattus norvegicus S1 calcium-	a tantag dodn'd sman
1 1				binding protein A9(calgranulin	
				B) (S1a9), mRNA. 11/21Length	
2403	21445	NM_053587	a,e,y,z,ee,ff	= 494	S100 calcium-binding protein A9 (calgranulin B)
				Rattus norvegicus	
				Deoxyuridinetriphosphatase	
2004	00000	*** 050500		(dUTPase) (Dut), mRNA.	
2404	20896	NM_053592	h,I	5/22Length = 952	Deoxyuridinetriphosphatase (dUTPase)
	Ì			Rattus norvegicus cyclin-	
2405	20002	NM_053593	-	dependent kinase 4 (Cdk4),	
2100	20302	14IVI_000090	<u> </u>	mRNA.11/21Length = 1232 Rattus norvegicus Endothelin-	cyclin-dependent kinase 4
1				converting enzyme 1 (Ece1),	
2406	21709	NM_053596	j,k,y,li	mRNA.5/22Length = 4469	Endolhalia accusation and d
		000000	livi lin	Rattus norvegicus ribosomal	Endothelin-converting enzyme 1
İ	İ			protein S27 (Rps27), mRNA.	
2407	2103	NM_053597	g		ribosomal protein S27
				Rattus norvegicus Matrix	moosomai protein ozi
	l	1		metalloproteinase 23 (Mmp23),	
2408	11794	VM_053606	ii :		Matrix metalloproteinase 23
				Rattus norvegicus casein	
	ļ	1		kinase 1, alpha 1 (Csnk1a1),	1
2409	20243	VM_053615		mRNA. 11/21Length = 978	casein kinase 1, alpha 1
	- 1	Ī		Rattus norvegicus fatty acid	
	}	Ţ		Coenzyme A ligase, long chain	
2440	42005	154 050000		4 (FacH), mRNA. 11/22Length =	
2410	130051	M_053623	,k,y,z	4862	fatty acid-Coenzyme A ligase, long chain 4
1		ĺ		Rattus norvegicus G elongation	
2411	1229	IM_053625 i	,	factor (EF-G), mRNA.	
2411	12201	uvi_000020	<u>,k</u>	11/21Length = 2619	G elongation factor
	- 1	ļ	I	Rattus norvegicus potassium	
				voltage-gated channel, subfamily H (eag-related),	
į	1	l	l.		not not be successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a successful as a suc
2412	15777 N	IM_053630			potassium voltage-gated channel, subfamily H (eag-
		[L	.,-,-	, 100	related), member 4

TABLE	1 ~	777	· .		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc		1. 持一样 <b>3. 实</b> 2. 10 数约 2. 14	
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus early growth	
				response 2 (Egr2), mRNA.	
2413	857	NM_053633	y,z,ee,ff	11/21Length = 2976	early growth response 2
1	}			Rattus norvegicus beta-	
1				carotene 15, 15-dioxygenase	İ
				(Bcdo),mRNA. 11/22Length =	
2414	18644	NM_053648	bb	227	beta-carotene 15, 15'-dioxygenase
1		1	1	Rattus norvegicus dynamin 1-	
2445	4440	NIA OFFICE		like (Dnml1), mRNA.	
2415	1118	NM_053655	u	11/22Length = 3845	dynamin 1-like
				Rattus norvegicus purinergic	
				receptor P2X, ligand-gated ion	
2416	1316	NM_053656	s,t,ii	channel, 2 (P2rx2), mRNA. 1/22Length = 1831	DOV P
2410	1010	1414 00000	3,1,11	Rattus norvegicus cyclin L	purinergic receptor P2X, ligand-gated ion channel, 2
				(Ccnl), mRNA. 11/21Length =	
2417	3454	NM_053662	p,q	292	cyclin L
			Piq	Rattus norvegicus cyclin L	Cyolin E
				(Ccnl), mRNA. 11/21Length =	
2417	3455	NM 053662	p.q.gg	292	cyclin L
			17/1/03	Rattus norvegicus YME1	l l l l l l l l l l l l l l l l l l l
				(S.cerevisiae)-like 1 (Yme1l1),	
2418	2063	NM_053682	е	mRNA.11/21Length = 2727	YME1 (S.cerevisiae)-like 1
				Rattus norvegicus Cbp/p3-	(siestevicies) mis i
				interacting transactivator,	
				withGlu/Asp-rich carboxy-	
				terminal domain, 2 (Cited2),	Cbp/p300-interacting transactivator, with Glu/Asp-
2419	16122	NM_053698	p,q,ee,ff	mRNA. 11/21Length = 1155	rich carboxy-terminal domain, 2
				Rattus norvegicus Cbp/p3-	
İ				interacting transactivator,	
			1	withGlu/Asp-rich carboxy-	·
			<b>!</b> •	terminal domain, 2 (Cited2),	Cbp/p300-interacting transactivator, with Glu/Asp-
2419	16123	NM_053698	d,p,q,jj,kk	mRNA. 11/21Length = 1155	rich carboxy-terminal domain, 2
				Rattus norvegicus mitogen-	
				activated protein kinase kinase	
2420	0004	NIN 050700		6(Map2k6), mRNA. 11/22Length	
2420	6684	NM_053703	kk	= 169	mitogen-activated protein kinase kinase 6
	1			Rattus norvegicus Kruppel-like	
2421	12622	NIM OF2742		factor 4 (gut) (Kif4),	
2421	13022	NM_053713	aa,bb,ll	mRNA.11/22Length = 2393	Kruppel-like factor 4 (gut)
				Rattus norvegicus Kruppel-like	
2421	22/11	NM_053713	d,t	factor 4 (gut) (Klf4), mRNA.11/22Length = 2393	Konnad Blocksstan & C.
2721	22411	14141_0007-10	u,t		Kruppel-like factor 4 (gut)
			ŀ	Rattus norvegicus Kruppel-like factor 4 (gut) (Klf4),	
2421	25379	NM_053713	t,li	mRNA.11/22Length = 2393	Krunnel like feeter / /
- 12-1		000110	',''	Rattus norvegicus bedin 1	Kruppel-like factor 4 (gut)
				(coiled-coil, myosin-like BCL2-	
					beclin 1 (coiled-coil, myosin-like BCL2-interacting
2422	15269	NM_053739	d,f,g	mRNA. 11/21Length = 198	protein)
			-13	Rattus norvegicus	protony
				phosphotidylinositol transfer	
				protein, beta(Pitpnb), mRNA.	
2423	13369	NM_053742	n,o		phosphotidylinositol transfer protein, beta
				Rattus norvegicus cell division	prosprioral fill of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file of the file o
1	İ			cycle 37 homolog (S.	
				'	CDC37 (cell division cycle 37, S. cerevisiae,
2424	10510	NM_053743	u,v		homolog)
					······································

TABLE :	ı	<del></del>	, s.	9 A	Atty. Ref. 44921-5090-01-WO/2105485.
18 8 W		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus succinate-	
				CoA ligase, GDP-forming,	
0.405	40475		1	alphasubunit (Suclg1), mRNA.	
2425	18175	NM_053752	aa,bb	11/21Length = 1684	succinate-CoA ligase, GDP-forming, alpha subunit
			]	Rattus norvegicusUDP-N-	
			<u> </u>	acetylglucosamine-2- epimerase/N-	
1 :				acetylmannosamine kinase	
		ł	}	(Uae1),mRNA. 11/22Length =	UDP-N-acetylglucosamine-2-epimerase/N-
2426	7927	NM 053765	d	258	acetylmannosamine kinase
-				Rattus norvegicus protein	doctymaniosamine kinase
				tyrosine phosphatase, non-	
				receptortype 16 (Ptpn16),	
2427	15996	NM_053769	cc,dd	mRNA. 11/22Length = 198	protein tyrosine phosphatase, non-receptor type 16
				Rattus norvegicus Arg/Abl-	
				interacting protein	
0.000				ArgBP2(Argbp2), mRNA.	
2428	14015	NM_053770	hh	11/21Length = 6331	Arg/Abl-interacting protein ArgBP2
1 1				Rattus norvegicus Arg/Abl-	i
				interacting protein	
2428	14017	NM_053770	hh	ArgBP2(Argbp2), mRNA. 11/21Length = 6331	Arm/Ahl internation and to Aug DDG
2120	14017	TWI_000770	101	Rattus norvegicus protein	Arg/Abl-interacting protein ArgBP2
				kinase inhibitor, alpha (Pkia),	
2429	1016	NM_053772	r,gg	mRNA.11/21Length = 1183	protein kinase inhibitor, alpha
				Rattus norvegicus interferon	protein milado ilmilokor, diprid
				gamma receptor (Ifngr), mRNA.	
2430	9059	NM_053783	j,k,kk	11/21Length = 186	interferon gamma receptor
ļ [				Rattus norvegicus kinase D-	
	[			interacting substance of 22 kDa	
2431	11000	NM_053795		(Kidins22), mRNA. 3/22Length =	
2401	11000	INIW_055795	99	714 Rattus norvegicus aspartyl-	kinase D-interacting substance of 220 kDa
	1	,		tRNA synthetase (Dars),	
2432	25594	NM_053799	ji,kk,ll	mRNA.11/21Length = 2143	aspartyl-tRNA synthetase
			,,,,,,,,	772 Teelight - 2140	aspanyi-niva synthetase
·	ŀ	1		Rattus norvegicus thioredoxin	
2433	15615	NM_053800	h,i	(Txn), mRNA. 11/22Length = 33	Ithioredoxin
				Rattus norvegicus Rho	
	05555			interacting protein 3 (Rhoip3),	
2434	25262	NM_053814	b,u,v,cc,dd	mRNA.11/21Length = 3286	Rho interacting protein 3
	1	ľ		Rattus norvegicus tissue	
	İ		alknovahhi	inhibitor of metalloproteinase 1	
2435	150021		a,ı,x,ıı,0,x,z,ıııı ,kk	(Timp1), mRNA. 11/21Length = 74	tingua inhihitar of matallangulaing a 4
	100021	000013	ALL STATES	Rattus norvegicus tissue	tissue inhibitor of metalloproteinase 1
		1		inhibitor of metalloproteinase 1	
	-	1:	a,I,k,n,o,x.z.hh	(Timp1), mRNA. 11/21Length =	
2435	15003		kk	1 1 1	tissue inhibitor of metalloproteinase 1
				Rattus norvegicus v-ral simian	
	ł	ŀ		leukemia viral oncogene	
	00.15				v-ral simian leukemia viral oncogene homolog B
2436	20421	VM_053821	,ii	mRNA. 11/21Length = 274	(ras related)
	ı	l		Rattus norvegicus S1 calcium-	
1	İ			binding protein A8(calgranulin	
2437	16173	NM_053822		A) (S1a8), mRNA. 11/21Length = 361	C400 exterior binding protein A0 (antennation A)
2.01	10170	1111_000022   E	5, <b>y</b> , 2, 66, 11	- 301	S100 calcium-binding protein A8 (calgranulin A)

TABLE 1		10 6 1			Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID	GenBank Acc.	Model Code	Known Cone Name	
SEQ ID	OLGC ID	INO.	Injurie Code	Known Gene Name	Unigene Sequence Cluster Title
		Ì		Rattus norvegicus dathrin, light	
				polypeptide (Lcb) (Cltb),mRNA.	
2438	17154	NM_053835	b,gg	11/22Length = 982	clathrin, light polypeptide (Lcb)
			1-13-3	11722251gtt - 502	Clatifiti, fight polypeptide (LCD)
		[		Rattus norvegicus dathrin, light	
ĺ				polypeptide (Lcb) (Cltb),mRNA.	
2438	17155	NM_053835	g	11/22Length = 982	clathrin, light polypeptide (Lcb)
					occurry ugus polypopudo (200)
1				Rattus norvegicus clathrin, light	
			ŀ	polypeptide (Lcb) (Cltb),mRNA.	
2438	18065	NM_053835	C	11/22Length = 982	clathrin, light polypeptide (Lcb)
		_		Rattus norvegicus adaptor-	
			İ	related protein complex 2, mu 1	
				subunit (Ap2m1), mRNA.	
2439	16099	NM_053837	f,r,cc,dd	11/21Length = 1816	adaptor-related protein complex 2, mu 1 subunit
1			,		
1			1	Rattus norvegicus Fc receptor,	
			İ	IgG, low affinity III (Fcgr3),	
2440	20868	NM_053843	kk	mRNA. 11/22Length = 1318	Fc receptor, IgG, low affinity III
1					
				Rattus norvegicus Fc receptor,	
2440				IgG, low affinity III (Fcgr3),	
2440	20869	NM_053843	w,x,kk	mRNA. 11/22Length = 1318	Fc receptor, IgG, low affinity III
				Rattus norvegicus neurexin 2	
0444	4700	0500.40	}	(Nrxn2), mRNA. 11/21Length =	
2441	1780	NM_053846	u,v	6436	neurexin 2
1			İ	Rattus norvegicus calcium	
			1	channel, voltage-dependent,	
2442	1011	NIM 052054	_	beta 2subunit (Cacnb2), mRNA.	
_2442	1011	NM_053851	e	11/22Length = 3927	calcium channel, voltage-dependent, beta 2 subuni
- 1			İ	Rattus norvegicus N-	
-	İ			acetyltransferase 1 (arylamineN-	
1				acetyltransferase) (Nat1),	N acoustranoforma 1 (andomina N
2443	16361	NM_053853	cc,dd	1	N-acetyltransferase 1 (arylamine N- acetyltransferase)
	- 10001	000000	00,00	Rattus norvegicus eukaryotic	acetyltransierase)
- 1	İ			translation initiation factor4E	
	ł			Jan. 10. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	eukaryotic translation initiation factor 4E binding
2444	1570	NM_053857	s,t	1 =	protein 1
			<u></u>	Rattus norvegicus eukaryotic	biolem i
	İ			translation initiation factor4E	
	-				eukaryotic translation initiation factor 4E binding
2444	1571	NM_053857	e,t,kk	1 =	protein 1
			***	Rattus norvegicus valosin-	Protest I
				containing protein (Vcp), mRNA.	
2445	18357	VM_053864	n,o	1	valosin-containing protein
			···	Rattus norvegicus	something protein
				phospholipase A2, activating	
.	1	i		protein (Plaa),mRNA.	
2446	11405	VM_053866	f	11/21Length = 2451	phospholipase A2, activating protein
				Rattus norvegicus dynein,	treesternation and annually broken
	l			cytoplasmic, intermediate	
- 1	1			polypeptide 2 (Dnci2), mRNA.	
ľ	Į.				
· 2447	1352	VM_053880	aa	11/21Length = 2538	dynein, cytoplasmic, intermediate nolynentide 2
· 2447	1352	NM_053880	aa		dynein, cytoplasmic, intermediate polypeptide 2
· 2447 2448		NM_053880 NM_053884	aa	11/21Length = 2538  Rattus norvegicus ATPase, vacuolar, 14 kD (Atp6s14),	dynein, cytoplasmic, intermediate polypeptide 2

TAB	LE 1	7. 25				Atty. Ref. 44921-5090-01-WO/2105485
SEQ	"-{	GLGC ID	GenBank Acc.	Model Octo	Known Cons Name	
SEU	W, I	GEGC ID	INU.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
İ					Rattus norvegicus arginine- glutamic acid dipeptide (RE)	
					repeats(Rere), mRNA.	
2	449	385	NM_053885	b.o.u.v.ee.ff.kk	11/21Length = 6659	arginine-glutamic acid dipeptide (RE) repeats
l	_			- 1-1-1-1-aliiling	Rattus norvegicus Proteinase-	3o gioternio doli dipeptide (I/L) repeats
1					activated receptor-2, G protein-	
					coupled receptor 11 (F2rl1),	Proteinase-activated receptor-2, G protein-coupled
2	450	753	NM_053897	ee,ff,gg	mRNA. 5/22Length = 1428	receptor 11
					6	
1	- 1				Rattus norvegicus peroxisomal	
2	451	15706	NM_053921	11	biogenesis factor 12 (Pex12), mRNA. 11/21Length = 2347	porovisormal biogenesis for the 40
	431	13700	14W_033921	11	Rattus norvegicus eukaryotic	peroxisomal biogenesis factor 12
1					translation initiation factor 2B	
l					(Eif2b), mRNA. 11/21Length =	
2	452	1426	NM_053950	aa	1634	eukaryotic translation initiation factor 2B
					Rattus norvegicus MCF.2 cell	
1					line derived transforming	
_	450	50.4	NIA 05054		sequence-like (Mcf2l), mRNA.	
1 2	453	531	NM_053951	99	11/21Length = 4354	MCF.2 cell line derived transforming sequence-like
1					Rattus norvegicus endoplasmic	
l	- 1				retuclum protein 29 (Erp29),	
_ 2	454	16552	NM_053961	h,l,n,o	mRNA. 11/21Length = 4529	endoplasmic retuctum protein 29
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1					Rattus norvegicus endoplasmic	
1 _	45.1	40555	NIL OFFICE		retuclum protein 29 (Erp29),	
2	454	16553	NM_053961	h,l	mRNA. 11/21Length = 4529	endoplasmic retuclum protein 29
1	1				Rattus norvegicus matrix metalloproteinase 12 (Mmp12),	
2	455	16654	NM_053963	n,o	mRNA. 11/21Length = 1632	matrix metalloproteinase 12
	$\neg \dagger$					
l			ĺ		Rattus norvegicus solute carrier	
					family 25(carnitine/acylcarnitine	
l					translocase), member 2	
,	456	16546	NM_053965	hh	(Slc25a2), mRNA.11/21Length = 1231	solute carrier family 25 (carnitine/acylcarnitine
	+50	10040	14141_055805	hh	1231	translocase), member 20
			1		Rattus norvegicus solute carrier	
			i		family 25(carnitine/acylcarnitine	
					translocase), member 2	
						solute carrier family 25 (carnitine/acylcarnitine
24	456	16547	NM_053965	hh	1231	translocase), member 20
		-			Rattus norvegicus G protein	
<b>)</b>	457	6357	NM_053969	d	pathway suppressor 1 (Gps1), mRNA.11/21Length = 1794	C protein pathway suppressed 4
<del></del> -	73/	0307	14141_033503	u	Rattus norvegicus ribosomal	G protein pathway suppressor 1
					protein L6 (Rpl6), mRNA.	
2	458	15135	NM_053971	h,l,n,o,w,x	11/21Length = 963	ribosomal protein L6
· ·					Rattus norvegicus ribosomal	
				1	protein L6 (Rpl6), mRNA.	
<u> 24</u>	458	15136	NM_053971	h,l,w,ii	11/21Length = 963	ribosomal protein L6
					Rattus norvegicus ribosomal	
2,	458	22183	NM_053971		protein L6 (Rpl6), mRNA. 11/21Length = 963	ECT
<del>                                     </del>	<del>''' </del>	22,100	0003/1	****	Rattus norvegicus Ras-related	EST
		1			GTP-binding protein ragA	
					(Raga),mRNA. 11/21Length =	
	459	15343	NM_053973	aa		Ras-related GTP-binding protein ragA

TABLE 1	l l				Atty. Ref. 44921-5090-01-WO/2105485
	T	GenBank Acc.			7y. 1 cl. 11021 0030-01-WO/2100403
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus RAB28,	
1				member RAS oncogene family	·
2460	10700	NIM OFFICE	h 1	(Rab28), mRNA. 11/21Length =	
2400	18798	NM_053978	h,l,n,o	1483	RAB28, member RAS oncogene family
1				Rattus norvegicus ribosomal	
2461	15/69	NM_053982	i w v ii kk	protein S15a (Rps15a),	the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the second section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect
2401	13400	TVW_033902	j,w,x,jj,kk	mRNA.11/21Length = 449 Rattus norvegicus H3 histone,	ribosomal protein S15a
1			1	family 3B (H3f3b), mRNA.	
2462	15642	NM_053985	d	11/21Length = 117	H3 histone, family 3B
		7411_000000		Rattus norvegicus H3 histone,	Tio historie, fairnity 3B
				family 3B (H3f3b), mRNA.	
2462	15645	NM_053985	d	11/21Length = 117	H3 histone, family 3B
				Rattus norvegicus myosin Ib	The motorie, farming ob
				(Myo1b), mRNA. 11/22Length =	
2463	17653	NM_053986	cc,dd	367	myosin IB
				Rattus norvegicus progestin	
				induced protein (dd5), mRNA.	
2464	18025	NM_053989	w,x	11/21Length = 318	progestin induced protein
1 1				Rattus norvegicus 3-	
				hydroxybutyrate dehydrogenase	
				(heart, mitochondrial) (Bdh),	3-hydroxybutyrate dehydrogenase (heart,
2465	17739	NM_053995	g	mRNA. 11/21Length = 142	mitochondrial)
		•		Rattus norvegicus protein	
				phosphatase 2 (formerly 2A),	
				regulatory subunit B (PR 52),	
2466	40000	NIA 052000		alpha isoform (Ppp2r2a),	protein phosphatase 2 (formerly 2A), regulatory
2466	16962	NM_053999	u,v	mRNA. 11/21Length = 2142	subunit B (PR 52), alpha isoform
]				Rattus norvegicus CD36	
				antigen (collagen type I receptor,thrombospondin	
				receptor)-like 2 (Cd36l2),	
2467	25249	NM_054001	ก,o	mRNA. 11/21Length = 1938	·
			11,0	111 (174. 1172 Teeligat - 1950	
1				Rattus norvegicus TBP-	
				interacting protein 12A (Tip12A),	
2468	16566	NM_054004	hh	mRNA. 11/21Length = 4383	TBP-interacting protein 120A
				Rattus norvegicus integral	incordeding protein 12071
	]			membrane-associated protein	
		ļ		1(Itmap1), mRNA. 11/21Length	
2469	1108	NM_054005	b,l,m	, , ,	integral membrane-associated protein 1
				Rattus norvegicus unr protein	
				(unr), mRNA. 11/21Length =	
2470	17431	NM_054006	cc,dd		unr protein
	-			Rattus norvegicus Rgc32	
_,				protein (Rgc32), mRNA.	
2471	17326	NM_054008	s,t	11/21Length = 889	Rgc32 protein
	İ			Rattus norvegicus Rgc32	
0,474	17000	NA 054000	, ,	protein (Rgc32), mRNA.	
2471	1/330	NM_054008	aa,bb	11/21Length = 889	Rgc32 protein
				Rattus norvegicus vesicle-	
		ļ		associated membrane protein 3	
2470	22250	NA 057007		(Vamp3), mRNA. 11/22Length =	<u>                                    </u>
2472	23230	NM_057097	,g	1742	vesicle-associated membrane protein 3
		1		Rattus norvegicus growth arrest	
2473	25200	NM_057100	4	specific 6 (Gas6),	, , , ,
2413	202001	AIM 001 100 1	v,u,t	mRNA.11/22Length = 2573	growth arrest specific 6

TABLE 1	· ·				Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
}					
				Rattus norvegicus Cytochrome	
			ĺ	P45, subfamily XXI (steroid 21-	
0.171	47700			hydroxylase) (Cyp21), mRNA.	
2474	17709	NM_057101	u,v	1/22Length = 1964	Tenascin X
				Rattus norvegicus A kinase	
			Į	(PRKA) anchor protein (gravin)	
2475	10050	NIM 057400	<b>.</b>	12(Akap12), mRNA.	
2475	19000	NM_057103	99	11/22Length = 5236 Rattus norvegicus	A kinase (PRKA) anchor protein (gravin) 12
				ectonucleotide	
				pyrophosphatase/phosphodieste	
			1	rase 2 (Enpp2), mRNA.	4
2476	9528	NM_057104	-	11/22Length = 3216	ectonucleotide pyrophosphatase/phosphodiesterase
2410	3320	1407 104	-	1 1/22Lengur - 32 10	2
				Rattus norvegicus UDP	
				glycosyltransferase 1	
l i				family,polypeptide A6 (Ugt1a6),	UDP glycosyltransferase 1 family, polypeptide A6,
2477	15125	NM_057105	jj,kk,ll	mRNA. 1/22Length = 1593	UDP glycosyltransferase 1 family, polypeptide A7
			,,,,,,	Rattus norvegicus	grycosymunolerase i farmiy, porypeptide A7
				peroxiredoxin 1 (Prdx1), mRNA.	
2478	15391	NM_057114	d	11/21Length = 882	peroxiredoxin 1
				Rattus norvegicus splicing	
				factor, arginine/serine-	
1				rich(transformer 2 Drosophila	
				homolog) 1 (Sfrs1), mRNA.	splicing factor, arginine/serine-rich (transformer 2
2479	23307	NM_057119	e	11/21Length = 1978	Drosophila homolog) 10
				Rattus norvegicus splicing	
				factor, arginine/serine-	
			ļ	rich(transformer 2 Drosophila	
				homolog) 1 (Sfrs1), mRNA.	splicing factor, arginine/serine-rich (transformer 2
2479	23310	NM_057119	e,s,t	11/21Length = 1978	Drosophila homolog) 10
] ]	1			Rattus norvegicus protease	
	1			(prosome, macropain) 26S	
2490	797	NINA OETAGO	l	subunit, ATPase 1 (Psmc1),	protease (prosome, macropain) 26S subunit,
2480	121	NM_057123	s,t	mRNA. 11/21Length = 1556	ATPase 1
1				Pottus popularious possuinas	
		, i		Rattus norvegicus peroxisomat biogenesis factor 6 (Pex6),	
2481	910	NM_057125	l,m	mRNA.11/21Length = 3169	porovisomal biogonopia factor 6
2401	313	1111_00/ 120	1,141	Rattus norvegicus	peroxisomal biogenesis factor 6
	-			heterogeneous nuclear	
	- 1			ribonucleoprotein K (Hnrpk),	<b> </b>
2482	2413	NM_057141	b,g,n,o,u,v		heterogeneous nuclear ribonucleoprotein K
			.31 1-1-1	Rattus norvegicus	
	- 1		-	heterogeneous nuclear	
	I			ribonucleoprotein K (Hnrpk),	
2482	2416	NM_057141	t	1	heterogeneous nuclear ribonucleoprotein K
				Rattus norvegicus cysteine-rich	<u> </u>
.	ļ			protein 3 (Csrp3), mRNA.	
2483	1892	NM_057144	a,o,x,ee,ff,kk	11/22Length = 853	cysteine-rich protein 3
				Rattus norvegicus oxidation	
				resistance 1 (Oxr1), mRNA.	
2484	19481	NM_057153	a,y,z,ee,ff		oxidation resistance 1
	T			Rattus norvegicus sarcomeric	
1				muscle protein	
	4.5.5.			(Sarcosin),mRNA. 11/21Length	
2485	15460	NM_057191	d,ee,ff	= 2316	sarcomeric muscle protein

TABLE 1			1 1 1	· ·	Atty. Ref. 44921-5090-01-WO/2105485
050 10	0.00.0	GenBank Acc			3
SEQ ID	GLGC IC	No.	Model Code		Unigene Sequence Cluster Title
		1	•	Rattus norvegicus sarcomeric	
		1		muscle protein	
2485	15464	NN 057404		(Sarcosin),mRNA. 11/21Length	
2400	1340	NM_057191	ee,ff	= 2316	sarcomeric muscle protein
1		1	1	Rattus norvegicus 2,4-dienoyl CoA reductase 1, mitochondrial	
			į	(Decr1), mRNA. 11/22Length =	
2486	15408	NM_057197	f,g,l,m	119	24 dispays CoA reduction 4 displays
			1431411	Rattus norvegicus 2,4-dienoyl	2,4-dienoyl CoA reductase 1, mitochondrial
				CoA reductase 1, mitochondrial	
		ł		(Decr1), mRNA. 11/22Length =	
2486	15409	NM_057197	f,g	119	2,4-dienoyl CoA reductase 1, mitochondrial
ł					
				Rattus norvegicus tropomyosin	
0407	40400			3, gamma (Tpm3), mRNA.	
2487	18122	NM_057208	h,l	11/21Length = 111	tropomyosin 3, gamma
			1	Rattus norvegicus synaptic	
		1		vesicle glycoprotein 2 a	
2488	1743	NM_057210	hh	(Sv2a),mRNA. 11/21Length = 3844	
1 - 100		1411_007210	- 101	Rattus norvegicus Kruppel-like	synaptic vesicle glycoprotein 2 a
			1	factor 9 (Klf9), mRNA.	
2489	8641	NM_057211	bb	11/22Length = 2721	Kruppel-like factor 9
					Trumpper like factor 9
1				Rattus norvegicus brain specific	
				binding protein (LOC117582),	
2490	11632	NM_057212	b	mRNA. 11/22Length = 999	brain specific binding protein
				Rattus norvegicus cytokine	
i				inducible SH2-containing protein	
2491	15707	NM_058208		2 (Cish2), mRNA. 11/22Length	
2431	13/0/	NW_030200	d	= 918 Rattus norvegicus ribosomal	cytokine inducible SH2-containing protein 2
	1		1	protein S23 (Rps23), mRNA.	
2492	10498	NM_078617	c,g,w,x	11/22Length = 432	ribosomal protein S23
			-131	Rattus norvegicus Smhs1	mbosomai protein 323
			1	protein (Smhs1), mRNA.	
2493	8820	NM_080399	j,k,ee,ff,jj,kk	12/21Length = 117	Smhs1 protein
	ĺ			Rattus norvegicus melanoma	
	- 1			antigen, family D, 2	
2424	0544			(Maged2),mRNA. 12/21Length =	
2494	2541	NM_080479	aa,bb	1993	melanoma antigen, family D, 2
	ł			Rattus norvegicus adaptor-	
				related protein complex 2, beta	
2495	17958	NM_080583	na .	1 subunit (Ap2b1), mRNA. 11/22Length = 5413	adoptor related meetil 1 C 1 C 1 C 1
		000000	99	Rattus norvegicus adaptor-	adaptor-related protein complex 2, beta 1 subunit
	ļ		1	related protein complex 2, beta	
	1			1 subunit (Ap2b1), mRNA.	
2495	17960	NM_080583	r	1	adaptor-related protein complex 2, beta 1 subunit
				Rattus norvegicus gamma-	1 present complex of pota 1 oddalit
	- 1		]	aminobutyric acid (GABA) A	i
3400		114 005		receptor,gamma 1 (Gabrg1),	gamma-aminobutyric acid (GABA) A receptor,
2496	506 1	VM_080586	ii	mRNA. 1/22Length = 1739	gamma 1
				Rattus norvegicus dynein light	
2497	17662	NM_080697	00 44	chain-2 (Dlc2), mRNA.	
- 273/	17002	****_00003/	cc,dd	1/22Length = 51 Rattus norvegicus fibromodulin	dynein light chain-2
	1			(Fmod), mRNA. 11/22Length =	1
2498	23551	VM_080698	ii	laa- " !	Fibromodulin
<del></del>			ت		fibromodulin

TABLE'1		<del></del>			Atty. Ref. 44921-5090-01-WO/2105485
250.15		GenBank Acc.			
SEQID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
		1	1	Rattus norvegicus purinergic	
			1	receptor P2X, figand-gated ion	
2499	363	NM_080780	d,e,p,q,ee,ff	channel, 5 (P2rx5), mRNA.	Down to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco
2433	303	111VI_000700	u,e,p,q,ee,ii	1/22Length = 1558	purinergic receptor P2X, ligand-gated ion channel, 5
				Rattus norvegicus	
				BCL2/adenovirus E1B 19 kDa-	
				interactingprotein 3-like (Bnip3I),	BCL2/adenovirus E1B 19 kDa-interacting protein 3-
2500	23033	NM_080888	r	mRNA. 1/22Length = 3219	like
				Rattus norvegicus hypoxia	
0504	0000			induced gene 1 (Hig1), mRNA.	
2501	9952	NM_080902	cc,dd	1/22Length = 355	hypoxia induced gene 1
				Pottus popuagiana Dibudrofolata	
				Rattus norvegicus Dihydrofolate reductase 1 (active) (Dhfr1),	
2502	4739	NM_130400	aa,bb	mRNA. 1/22Length = 761	Dihydrofolate reductase 1 (active)
			,	Rattus norvegicus protein	Dinyurorolaic reductase 1 (active)
				phosphatase 1,	
				regulatory(inhibitor) subunit 14a	
				(Ppp1r14a), mRNA. 1/22Length	protein phosphatase 1, regulatory (inhibitor) subunit
2503	9633	NM_130403	jj,kk	= 559	14a
1				Rattus norvegicus coronin,	
				actin binding protein 1A	
2504	21605	NM_130411		(Coro1a),mRNA. 1/22Length =	
2304	21095	14141_130411	С	1386   Rattus norvegicus heat shock	coronin, actin binding protein 1A
				27kD protein 2 (Hspb2), mRNA.	
2505	11709	NM_130431	s	11/22Length = 549	heat shock 27kD protein 2
				Rattus norvegicus guanine	Trout Grown Er RD protein E
1				nucleotide binding protein,	
				betapolypeptide 2-like 1	
0500	4.40.50				guanine nucleotide binding protein (G protein), beta
2506	14959	NM_130734	w,x	189	polypeptide 2-like 1
				Rattus norvegicus lipocalin 2 (Lcn2), mRNA. 11/22Length =	
2507	1809	NM_130741	l,k	1	lipocalin 2
		7111_100741	1,11	Rattus norvegicus solute carrier	iipocaini 2
				family 5, member 6	
1		ĺ			solute carrier family 5 (sodium-dependent vitamin
2508	1502	NM_130746	aa		transporter), member 6
1	T			Rattus norvegicus solute carrier	
				family 5, member 6	
2500	1500	AINA 120746	d		solute carrier family 5 (sodium-dependent vitamin
2508	1003	NM_130746	d	391 Rattus norvegicus ATPase,	transporter), member 6
	İ			Ca++-sequestering (Atp2c1),	
2509	20738	NM_131907	С		ATPase, Ca++-sequestering
				Rattus norvegicus mitogen	doo, ou · · doqueoconing
				activated protein kinase kinase	
	1	j		2(Map2k2), mRNA. 11/22Length	
2510	17564	NM_133283	hh	= 1376	mitogen activated protein kinase kinase 2
	ļ			Rattus norvegicus zinc finger	
2514	25720	NIM 132200	i k n a	protein 36 (Zfp36), mRNA.	-1 5
2511	20/30	NM_133290	j,k,p,q	11/22Length = 963 Rattus norvegicus	zinc finger protein 36
				carboxylesterase 3 (Ces3),	
2512	20879	NM_133295	hh		carboxylesterase 3
		,		minary i mzzecinym – 1900	Cal DUNYICS (CI dase a

SEG ID   GLGC ID   No.   Model Code   Known Gene Name   Unigenie Sequence Cluster Title	TABLE 1		. : : :	<del> </del>	. <u>1</u> . 1	Atty. Ref. 44921-5090-01-WO/2105485
Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glycoprotein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nortein (transmembrane) nmb   Raftus norvegicus glicing nor				T		7 dy: 10:1 44021-0030-01-440/2100403
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2513   19456 NM_133298   h,l.w.x   (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_222Length = 232   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb), mRNA_232Length = 234   glycoprotein (transmembrane) nmb (gomb	1					
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Rattus norvegicus glycoprotein (transmembrane) nmb   Rattus norvegicus glycoprotein (transmembrane) nmb   Rattus norvegicus basic helix-toop-helix domain containing, dass B3 (Bhlhb3), mRNA. 1/22Length = 311   Rattus norvegicus oxidised low density lipoprotein (teclin-like) receptor 1 (OI1), mRNA. 1/122Length = 315   Rattus norvegicus patricus avidised low density lipoprotein (teclin-like) receptor 1 (OI1), mRNA. 1/122Length = 375   Rattus norvegicus patricus avidised low density lipoprotein (teclin-like) receptor 1 (OI1), mRNA. 1/122Length = 375   Rattus norvegicus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patricus patri	2512	40.40	144 422000			1
2513   4049   NM_133298   C.h.I,n,o.w.x   (Iransmembrane) nmb (Gpmmb), mRNA_202Length = 232   Rattus norvegious basic helix-loop-helix domain containing, class B, 38   (Rihhb3), mRNA_11/22Length = 311   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Ol11), mRNA_11/22Length = 375   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Ol11), mRNA_11/22Length = 375   Rattus norvegious spiningosine kinase 1 (Sphk1), mRNA_11/22Length = 2576   Rattus norvegious spiningosine kinase 1 (Sphk1), mRNA_11/22Length = 2584   Sphingosine kinase 1 (Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious spiningosine kinase (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious spiningosine kinase (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain contain	2013	4040	NW_133298	n,ı,n,o,w,x	mRNA. 2/22Length = 232	glycoprotein (transmembrane) nmb
2513   4049   NM_133298   C.h.I,n,o.w.x   (Iransmembrane) nmb (Gpmmb), mRNA_202Length = 232   Rattus norvegious basic helix-loop-helix domain containing, class B, 38   (Rihhb3), mRNA_11/22Length = 311   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Ol11), mRNA_11/22Length = 375   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Ol11), mRNA_11/22Length = 375   Rattus norvegious spiningosine kinase 1 (Sphk1), mRNA_11/22Length = 2576   Rattus norvegious spiningosine kinase 1 (Sphk1), mRNA_11/22Length = 2584   Sphingosine kinase 1 (Rattus norvegious oxidised low density lipoprotein (lectin-like) receptor 1 (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious spiningosine kinase (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Rattus norvegious spiningosine kinase (Iransmembrane) nmb   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain containing, class B, 3   Dasic helix-loop-helix domain contain					Pattus populations alvocaratain	
2513   4049   NM_133298   C,hl,n,o,w,x   mRNA_2/2ZLength = 232   Rattus nonvegicus basic helix-loop-helix domain containing, dass 83 (Bhhba), mRNA_11/2ZLength = 311   hasic helix-loop-helix domain containing, dass 83 (Bhhba), mRNA_11/2ZLength = 311   hasic helix-loop-helix domain containing, dass 83 (Bhhba), mRNA_11/2ZLength = 315   Rattus nonvegicus oxidised low density lipoprotein (lectin-like) receptor 1 (D(11), mRNA_11/2ZLength = 375   Rattus nonvegicus phingosine kinase 1 (Ryhl), mRNA_12/2ZLength = 5376   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_12/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_12/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_12/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 1339   Rattus nonvegicus sphingosine kinase 1 (Ryhl), mRNA_13/2ZLength = 183   Ryhl), mRNA_13/2ZLength = 183   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/2ZLength = 1839   Ryhl), mRNA_13/	1					
Rattus norvegicus basic helix-loop-helix domain containing class B3 (Bhlhb3), mRNA. 11/22Length = 311   Basic helix-loop-helix domain containing class B3 (Bhlhb3), mRNA. 11/22Length = 315   Basic helix-loop-helix domain containing. class B, 3   Basic helix-loop-helix domain containing. class B, 3   Rattus norvegicus sides of low density lipoprotein (lectin-like) receptor 1 (DI1), mRNA. 11/22Length = 375   Rattus norvegicus interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (lectin-like) receptor (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density lipoprotein (Interferulini density li	2513	4049	NM 133298	chlaowx		· I
2514   1061 NM_133303   0.q.hh   100-helix domain containing,class B3 (Bhlhb3), mRNA. 1122Length = 311   Rattus norvegicus oxidised low density lipoprotein (lectin-like) receptor 1 (0/t1), mRNA. 1122Length = 375   Rattus norvegicus interfeukin 4 receptor (1(k1), mRNA. 3/22Length = 375   Rattus norvegicus sphingosine kinase 1   Alticology (1(k1), mRNA. 3/22Length = 2548   16713 NM_13380   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y.z   3.6   i.k.y				O,HI,HI,O,HI,X		grycoprotein (transmembrane) ninb
2514   1061   NM_133303   N,q,hh   mRNA_11/22Length = 311   basic helix-loop-helix domain containing, class B, 3   mRNA_11/22Length = 311   hasic helix-loop-helix domain containing, class B, 3   hasic helix-loop-helix domain containing, class B, 3   Rattus norvegicus oxidised low density lipoprotein (lectin-like) receptor (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 3576   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1359   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterior (10f1), mRNA_3/22Length = 1351   nterio	1					
2514   1061 NM_133303   p.q.hh   mRNA_11/22Length = 311   basic helix-loop-helix domain containing, class B, 3   Rattus norvegicus oxidised low density lipoprotein (lectin-like) receptor (10ft), mRNA.   11/22Length = 375   Tattus norvegicus spiningosine kinase (16, hkl.) mRNA.   3/22Length = 3576   Rattus norvegicus spiningosine kinase (16, hkl.) mRNA.   11/22Length = 2648   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   11/22Length = 1359   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   11/22Length = 1359   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 1359   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1322Length = 1359   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1322Length = 1359   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1322Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1322Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1322Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) matter (18, hkl.) mRNA.   1332Length = 268   Rattus norvegicus spiningosine kinase (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) matter (18, hkl.) ma			i	İ		
Rattus norvegicus soxidised low density lipoprotein (lectin-like) receptor 1 (Of1), mRNA. 11/22.ength = 375   Rattus norvegicus interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Rattus norvegicus interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3576   Interleukin 4 receptor (IRI), mRNA. 3/22.ength = 3	2514	1061	NM_133303	p,q,hh	mRNA. 11/22Length = 311	basic helix-loop-helix domain containing class B 3
Page					Rattus norvegicus oxidised low	to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
2515   4318   NM_133306   p.q   11/22Length = 375   1   Rattus norvegicus prierieukin 4   receptor (  4 n), mRNA.   3/22Length = 2576   Rattus norvegicus prierieukin 4   receptor (  4 n), mRNA.   3/22Length = 2648   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus prierieukin 4   receptor   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   receptor   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Rattus norvegicus   Ra	1					
2516   4318   NM_133306   P.Q   11/22Length = 375   1					receptor 1 (Oir1), mRNA.	oxidised low density lipoprotein (lectin-like) receptor
2516   657   NM_133380   j,ky,z   3/22Length = 3576   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Rattus norvegicus sphingosine kinase 1 (Sphk1), mRNA.   11/22Length = 2648   Sphingosine kinase 1   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 receptor   Interleukin 4 r	2515	4318	NM_133306	p,q		1
2516   657   NM_133380   j,k.y.z   3/22Length = 3576   Rattus norvegicus sphingosine kinase (1 (5pht.1), mRNA.   11/22Length = 2648   sphingosine kinase (1 (5pht.1), mRNA.   11/22Length = 2648   sphingosine kinase (1 (5pht.1), mRNA.   11/22Length = 1359   Rattus norvegicus integrin-linked kinase (Ik), mRNA.   3/22Length = 1359   Rattus norvegicus dyskeriatosis congenita 1, dyskerin (Dkc1), mRNA. 3/22Length =   dyskeratosis congenita 1, dyskerin (Dkc1), mRNA. 3/22Length =   dyskeratosis congenita 1, dyskerin (Dkc1), mRNA. 3/22Length = 2968   Rattus norvegicus splicing factor YT521-B (YT521), mRNA.   3/22Length = 2968   Rattus norvegicus adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA.   11/22Length = 2681   Rattus norvegicus transcription factor E2a (Tcfe2a), mRNA.3/22Length = 216   Rattus norvegicus preimplantation protein 3   (Prei3), mRNA. 3/22Length = 216   Rattus norvegicus preimplantation protein 3   (Prei3), mRNA. 3/22Length = 216   Rattus norvegicus preimplantation protein 3   (Prei3), mRNA. 3/22Length = 2524   2788   NM_133528   S,t.   2513   Rattus norvegicus general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length = (Ptp2E), mRNA. 3/22Length =	i					
Rattus norvegicus sphingosine kinase 1 (Sphk1), mRNA.	0.540					
2517   7700   NM_133386   ee,ff	2516	657	NM_133380	j,k,y,z		Interleukin 4 receptor
2517   7700 NM_133386   ee,ff   11/22Length = 2648   Sphingosine kinase 1						
Rattus norvegicus integrin-   Integrin-linked kinase   Integrin-linked kinase	2517	7700	NIM 42220C	"		
Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   S	2317	7700	NIVI_133386	ee,ii		sphingosine kinase 1
2518	1				,	
Rattus norvegicus dyskeratosis congenita 1, dyskerin (Dkc1),mRNA. 3/22Length = 183   dyskerin (Dkc1),mRNA. 3/22Length = 183   dyskeratosis congenita 1, dyskerin (Dkc1),mRNA. 3/22Length = 2680   NM_133423   e,cc,dd   Rattus norvegicus splicing factor YT521-B (YT521), mRNA. 3/22Length = 2968   Rattus norvegicus adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. 3/22Length = 2681   Rattus norvegicus transcription factor E2a (Tcfe2a), mRNA. 3/22Length = 216   Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182   Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 182   Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513   Rattus norvegicus general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = 8878   Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length = 1	2518	16713	NM 133409	h		inter-in the land to the
2519   19326 NM_133419		707.10	1400_100400	<u> </u>	Raftus nonvenious dyskeratosis	integrin-linked kinase
2519	[					
2519   19326 NM_133419   u,v,jj,kk						
Rattus norvegicus splicing factor YT521-B (YT521), mRNA. 3/22Length = 2968 Rattus norvegicus adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. 11/22Length = 2681 Rattus norvegicus denylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. 11/22Length = 2681 Rattus norvegicus transcription factor E2a (Tcfe2a), mRNA. 3/22Length = 216 Rattus norvegicus transmembrane 4 superfamily member 3 (Tm4sf3), mRNA. 3/22Length = 1182 Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513 Rattus norvegicus general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length = 2525 Rattus norvegicus general transcription factor III C 1 (Rattus norvegicus general transcription factor III C 1 (Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Length = 252Leng	2519	19326	NM_133419	u.v.ii.kk		dyskeratosis congenita 1. dyskerin
factor YT521-B (YT521), mRNA. 3/22Length = 2968  Rattus norvegicus adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. 11/22Length = 2681  Rattus norvegicus transcription factor E2a (Tcfe2a), mRNA.3/22Length = 216  Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA.3/22Length = 2524  2788 NM_133528  s,t  2525  1791 NM_133541  II  factor YT521-B (YT521), mRNA. splicing factor YT521-B  adenylate cyclase activating polypeptide 1 receptor 1  Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513  Rattus norvegicus general transcription factor III C 1(Gff3c1), mRNA. 3/22Length = 6878  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =				,,,		dydricialosis congenita 1, dyskenn
2520   10660 NM_133423   e,cc,dd   3/22Length = 2968   splicing factor YT521-B						
Rattus norvegicus adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. adenylate cyclase activating polypeptide 1 receptor 1 (Adcyap1r1), mRNA. adenylate cyclase activating polypeptide 1 receptor 1 (1/22Length = 2681	2520	10660	NM_133423	e,cc,dd		splicing factor YT521-B
receptor 1 (Adcyap1r1), mRNA.  11/22Length = 2681  Rattus norvegicus transcription factor E2a (Tcfe2a), mRNA.3/22Length = 216  Rattus norvegicus transmembrane 4 superfamily member 3 (Tm4sf3), mRNA. 3/22Length = 1182  Rattus norvegicus transmembrane 4 superfamily member 3 (Tm4sf3), mRNA. 3/22Length = 1182  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length =  2524  2788 NM_133528  s,t  2513  Rattus norvegicus general transcription factor III C 1 (Gif3c1), mRNA. 3/22Length =  general transcription factor III C 1 (Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		J		-	Rattus norvegicus adenylate	
2521 24775 NM_133511						
Ratitus norvegicus transcription factor E2a (Tcfe2a), mRNA.3/22Length = 216 Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA.  2523 20890 NM_133526 ii 3/22Length = 1182 transmembrane 4 superfamily member 3 Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513 Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878 Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =						adenylate cyclase activating polypeptide 1 receptor
2522 25543 NM_133524 s factor E2a (Tcfe2a), mRNA.3/22Length = 216  Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182 transmembrane 4 superfamily member 3  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513  2788 NM_133528 s,t 2513 preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  2525 1791 NM_133541 II G878 general transcription factor III C 1  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	2521	24775	NM_133511	С		1
2522 25543 NM_133524 s mRNA.3/22Length = 216 Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182 transmembrane 4 superfamily member 3 Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513 Preimplantation protein 3 Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		•	1			
Rattus norvegicus transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2524 2788 NM_133528 s,t 2513  Rattus norvegicus preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  general transcription factor III C 1  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	2500	05540	100504			
transmembrane 4 superfamily member 3(Tm4sf3), mRNA. 3/22Length = 1182 transmembrane 4 superfamily member 3  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2524 2788 NM_133528 s,t 2513 preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  Rattus norvegicus general transcription factor III C 1 (Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length = 6878	2522	25543	NM_133524	S		
2523 20890 NM_133526 ii member 3(Tm4sf3), mRNA. 3/22Length = 1182 transmembrane 4 superfamily member 3  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = general transcription factor III C 1  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	1	j				
2523 20890 NM_133526 ii  3/22Length = 1182 transmembrane 4 superfamily member 3  Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2513 preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878 general transcription factor III C 1 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		1	I			
Rattus norvegicus preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2524 2788 NM_133528 s,t 2513 preimplantation protein 3 Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878 general transcription factor III C 1 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	2523	20890	NM 133526	:		
preimplantation protein 3 (Prei3), mRNA. 3/22Length = 2524 2788 NM_133528 s,t 2513 preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 2525 1791 NM_133541 II general transcription factor III C 1 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	2020	20030	14W_133320	11		transmembrane 4 superfamily member 3
2524 2788 NM_133528 s,t (Prei3), mRNA. 3/22Length = preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		[				
2524 2788 NM_133528 s,t 2513 preimplantation protein 3  Rattus norvegicus general transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		1	l	İ		1
Raittus norvegicus general transcription factor III C  1(Gtf3c1), mRNA. 3/22Length = general transcription factor III C 1  Raittus norvegicus protein tyrosine phosphatase 2E  (Ptp2E), mRNA. 3/22Length =	2524	2788	NM_133528	s.t		preimplantation protein 3
transcription factor III C 1(Gtf3c1), mRNA. 3/22Length = 6878  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =				•		Promplementon protein o
2525 1791 NM_133541 II 1(Gtf3c1), mRNA. 3/22Length = general transcription factor III C 1 Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		-	ļ			į
2525 1791 NM_133541 II 6878 general transcription factor III C 1  Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =		j	į	1		ĺ
Rattus norvegicus protein tyrosine phosphatase 2E (Ptp2E), mRNA. 3/22Length =	2525	1791	NM_133541 I			general transcription factor III C 1
(Ptp2E), mRNA. 3/22Length =					Rattus norvegicus protein	<u> </u>
0500 4004) 11 400-14 (4)	']	l	1		tyrosine phosphatase 2E	i
2526  1824 NM_133545   j,k,r   5543   protein tyrosine phosphatase 2E				ļ		
	2526	1824	NM_133545 j	<u>,k,r</u>	5543	protein tyrosine phosphatase 2E

TABLE 1	1			<del></del>	Atty: Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		10.00	Aug. 161. 14021-0030-01-410/2103483
SEQ ID	GLGC IE	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
1			1 .	Rattus norvegicus myeloid	
	l			differentiation primary	
2527	11483	NM_133546	j,k,p,q,kk	responsegene 116 (Myd116), mRNA. 3/22Length = 2225	any placed differentials
		71111_100040	j,n,p,q,nn	Rattus norvegicus myeloid	myeloid differentiation primary response gene 116
		1		differentiation primary	
	Ì			responsegene 116 (Myd116),	
2527	18043	NM_133546	s,t,ll	mRNA. 3/22Length = 2225	myeloid differentiation primary response gene 116
				Rattus norvegicus	EST, Weakly similar to FGD1_MOUSE Putative
]				phospholipase A2, group IVA	Rho/Rac guanine nucleotide exchange factor
]				(cytosolic, calcium-dependent)	(Rho/Rac GEF) (Faciogenital dysplasia protein
2528	244	NM 122554	a,j,k,y,z,ee,ff,k	1,	
2320	244	NM_133551	k	2858	IVA (cytosolic, calcium-dependent)
				Rattus norvegicus proprotein convertase subtilisin/kexin type	
		}		4 (Pcsk4), mRNA. 11/22Length	
2529	25369	NM_133559	l,m	1= 2458	proprotein convertase subtilisin/kexin type 4
			-	Rattus norvegicus cell division	proprotein convenase subulisitivkexin type 4
<b>j</b>				cycle 25B (Cdc25b),	
2530	1827	NM_133572	r,u,v	mRNA.3/22Length = 284	cell division cycle 25B
				Rattus norvegicus cell division	
0500	4000	100500		cycle 25B (Cdc25b),	
2530	1830	NM_133572	V	mRNA.3/22Length = 284	cell division cycle 25B
				Rattus norvegicus cell division	
2530	1831	NM_133572	.,	cycle 25B (Cdc25b),	
2000	1001	14141_133372	V	mRNA.3/22Length = 284 Rattus norvegicus RN protein	cell division cycle 25B
				(LOC171116), mRNA.	
2531	24609	NM_133585	cc,dd	3/22Length = 1619	RN protein
				Rattus norvegicus adaptor-	Tot protein
				related protein complex AP-3,	
				mu 1 subunit (Ap3m1), mRNA.	
2532	1271	NM_133593	a,ee,ff,jj,kk	4/22Length = 2146	adaptor-related protein complex AP-3, mu 1 subunit
				Pottus noncesions budget and	
				Rattus norvegicus hydroxyacyl- Coenzyme A dehydrogenase/3-	
				ketoacyl-Coenzyme A	
	ł			thiolase/enoyl-Coenzyme A	
	- 1			• •	hydroxyacyl-Coenzyme A dehydrogenase/3-
	ļ	. 1			ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A
2533	1728	NM_133618	w,x	3/22Length = 1928	hydratase (trifunctional protein), beta subunit
	- 1			Rattus norvegicus guanylate	
		l		binding protein 2, interferon-	1
2534	14005	NM_133624		inducible (Gbp2), mRNA.	1
2004	14995	VIVI_133624 (		3/22Length = 2396	guanylate binding protein 2, interferon-inducible
İ				Rattus norvegicus cathepsin D (Ctsd), mRNA. 11/22Length =	
2535	1463	VM_134334			ostbonoin D
			- 100	Rattus norvegicus RAP1B,	cathepsin D
-	}			member of RAS oncogene	İ
	1			amily (Rap1b), mRNA.	
2536	16456	VM_134346 ii	i;	3/22Length = 1874	RAP1B, member of RAS oncogene family
	. [			Rattus norvegicus myxovirus	3
		Ì		influenza virus) resistance 3	1
2537	E47 L	M 424250 ·		Mx3), mRNA. 3/22Length =	
2007	31/1	M_134350 s	·	2443	myxovirus (influenza virus) resistance 3

TABLE 1			111		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus methionine	
				adenosyltransferase II, alpha	
1 1				(Mat2a), mRNA. 3/22Length =	
2538	17337	NM_134351	j,k_	1337	ESTs
				Rattus norvegicus Plasminogen	
1 1				activator, urokinase receptor	
				(Plaur), mRNA. 5/22Length =	
2539	606	NM_134352	a,y,z	1277	Plasminogen activator, urokinase receptor
				Rattus norvegicus poly(A)	i i i i i i i i i i i i i i i i i i i
1 1			l	binding protein, cytoplasmic	-
			Į.	1(Pabpc1), mRNA, 3/22Length	
2540	19840	NM_134353	in .	= 219	poly(A) binding protein, cytoplasmic 1
				Rattus norvegicus diacetyl/L-	F-7( )
				xylulose reductase (glb), mRNA.	
2541	8692	NM_134387	hh	3/22Length = 879	diacetyl/L-xylulose reductase
					in a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a style and a s
]			İ	Rattus norvegicus LL5 protein	·
2542	1530	NM_134397	a,e,jj,kk	(LI5), mRNA. 3/22Length = 3765	I 1.5 protein
			-, .,,,	(=5), a a a cizzzongai - 0.00	TELS PROTEIN
'.			}	Rattus norvegicus cytosolic	
1 1				sorting protein PACS-1 (Pacs1),	
2543	7164	NM 134406	ij,kk	mRNA. 3/22Length = 4198	cytosolic sorting protein PACS-1
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rattus norvegicus collagen,	cytosolic sorting protein i Acc-i
}				type V, alpha 1 (Col5a1),	
2544	25237	NM_134452	r	mRNA.11/22Length = 5551	collagen, type V, alpha 1
				Rattus norvegicus chemokine	conagen, type v, aipna t
1 1				(C-X3-C motif) ligand 1	
ľ				(Cx3cl1),mRNA. 1/22Length =	
2545	19077	NM_134455	aa,bb	1344	small inducible cytokine subfamily D, 1
			,	Rattus norvegicus late	I Trial reddible cytokile subrainity b, 1
				gestation lung protein 1 (Lgl1),	
2546	19894	NM_138518	t,ll	mRNA.4/22Length = 352	late gestation lung protein 1
				Rattus norvegicus associated	Tato geotation rang protein 1
	Ì			molecule with the SH3 domain	
	i			ofSTAM (Amsh), mRNA.	
2547	4422	NM_138531	99	11/22Length = 1544	associated molecule with the SH3 domain of STAM
			33	Rattus norvegicus glutamate	according motorale with the of the dollars of o'r thi
	1			receptor interacting protein 2	
]	İ			(Grip2), mRNA. 4/22Length =	
2548	5283	NM_138535	gg	5433	glutamate receptor interacting protein 2
			<u></u>	Rattus norvegicus synaptic	grande receptor interacting protein z
		ļ		glycoprotein SC2 (SC2), mRNA.	
2549	25479	NM_138549	jj,kk		synaptic glycoprotein SC2
		<del>-</del>		Rattus norvegicus	-y
1 . !	i	. [		Metallothionein (Mt1a), mRNA.	
2550	15189	NM_138826	j,k,y,z,ee,ff,kk	l '	Metallothionein
			2. 23. 1 1-1-1-1	Rattus norvegicus	
	1			Metallothionein (Mt1a), mRNA.	·
2550	15190	NM_138826	j,k,y,z,ii	1	Metallothionein
			* <u>************************************</u>	Rattus norvegicus solute carrier	
]	- 1			family 2,member 1	
	- 1			l	Solute carrier family 2 a 1 (facilitated glucose
2551	16248	NM_138827	y,z	1	transporter) brain
			) T	Rattus norvegicus solute carrier	a direportory brain
				family 2,member 1	
	i	į		1	Solute carrier family 2 a 1 (facilitated glucose
2551	16249	NM_138827	i,k	II	transporter) brain
			pr	120.1	uansporter) brain

TABLE 1		TA - K	100		Atty. Ref. 44921-5090-01-WO/2105485
מבט ום	01.00.10	GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			]	Rattus norvegicus	
		ĺ		apolipoprotein E (Apoe), mRNA	i.
2552	16400	NM_138828	cc,dd	11/22Length = 936	Apolipoprotein E,
				Rattus norvegicus	
			1	apolipoprotein E (Apoe), mRNA	
2552	16401	NM_138828	99	11/22Length = 936	
				Rattus norvegicus vacuole	
		ļ	1	Membrane Protein 1 (Vmp1),	
2553	23166	NM_138839	y,z,ee,ff,kk	mRNA.11/22Length = 183	Vacuole Membrane Protein 1
				Rattus norvegicus	
ĺ			j	Saccharomyces cerevisiae	
			-	Nip7p homolog(pEachy),	
2554	9796	NM_138847	j,k	mRNA. 4/22Length = 1175	Saccharomyces cerevisiae Nip7p homolog
				Rattus norvegicus prolactin-like	· · · · · · · · · · · · · · · · · · ·
			1	protein K (Prlpk), mRNA.	
2555	8468	NM_138861	b	11/22Length = 865	prolactin-like protein K
1				Rattus norvegicus Diaphorase	
1	į			(NADH) (cytochrome b-5	
			l	reductase)(Dia1), mRNA.	
2556	17530	NM_138877	n,o,ii	4/22Length = 1893	Diaphorase (NADH) (cytochrome b-5 reductase
1				Rattus norvegicus Diaphorase	
				(NADH) (cytochrome b-5	
l				reductase)(Dia1), mRNA.	İ
2556	17532	NM_138877	j,k	4/22Length = 1893	Diaphorase (NADH) (cytochrome b-5 reductase)
				Rattus norvegicus Diaphorase	
i				(NADH) (cytochrome b-5	
İ	- 1			reductase)(Dia1), mRNA.	
2556	25039	NM_138877	ee,ff	4/22Length = 1893	Diaphorase (NADH) (cytochrome b-5 reductase)
				Rattus norvegicus Best5 protein	(Cytochorne b-3 reductase)
İ	ŀ			(Best5), mRNA. 4/22Length =	
2557	4594	NM_138881	С	3628	Best5 protein
				Rattus norvegicus	2 Social Protoni
- 1	1			phosphatidylserine-specific	
1				phospholipaseA1 (Pspla1),	
2558	945 1	NM_138882	j,k,s,t	mRNA. 11/22Length = 1743	phosphatidylserine-specific phospholipase A1
			11:1-1-	Rattus norvegicus ATP	phosphalidyiseime-specific phospholipase A1
	i			synthase, H+ transporting,	
- 1	!	ļ		mitochondrial F1 complex, O	
- 1	ł			subunit (oligomycin sensitivity	ATP synthase, H+ transporting, mitochondrial F1
					complex, O subunit (oligomycin sensitivity
2559	7395	VM_138883	r	mRNA. 4/22Length = 77	conferring protein)
				Rattus norvegicus polyubiquitin	something protein)
- 1		Ì		(Loc192255), mRNA.	
2560	3015	NM_138895	aa,bb	4/22Length = 1115	polyubiquitin
				Rattus norvegicus	poryuniquitin
		ļ		phospholipase B (Loc192259),	
2561	1168	NM_138898	e,n		phospholipase B
-=			O ₁ ,,,	Rattus norvegicus complement	priospriolipase b
-		1		component 1, s subcomponent	
		Ì			
2562	18867	√M_138900	h.c	(C1s), mRNA. 11/22Length = 298	tt
	.500711	100000	o,c	Rattus norvegicus stress-	complement component 1, s subcomponent
i		ļ	i		
	1	ļ	·	induced-phosphoprotein 1	
	1	İ	İ	(Hsp7/Hsp9-organizing protein)	
2563	11040	IM 120044	_	1000	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-
2000	11040	IM_138911 e	9	1632	organizing protein)
}				Rattus norvegicus ribosomal	
2504	45000	400000		protein L41 (Rpl41), mRNA.	
2564	15380JN	IM_139083  ι	ı,v,∝,dd ]	11/22Length = 357	ribosomal protein L41

TABLE 1	1 .		· · · · · · · · · · · · · · · · · · ·		Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC IE	GenBank Acc			
SECTIO	GLGCIL	NO.	Model Code		Unigene Sequence Cluster Title
	i			Rattus norvegicus CTD-binding	9
	}			SR-like protein rA8	
2565	72	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(LOC245926), mRNA.	·
2303	/3	NM_139094	99	5/22Length = 4794	CTD-binding SR-like protein rA8
[ ]	1	1		Rattus norvegicus ATP	
			1	synthase, H+ transporting,	
		1		mitochondrial F1 complex,	·
2566	17203	NM_139099	nh	epsilon subunit (Atp5e), mRNA.	, in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
2000	17200	NW_139099	g,hh	5/22Length = 44 Rattus norvegicus ATP	complex, epsilon subunit
			l	synthase, H+ transporting,	
				mitochondrial F1 complex,	
					ATD d the
2566	1720/	NM_139099		epsilon subunit (Atp5e), mRNA.	, , , , , , , , , , , , , , , , , , ,
2000	17207	1414_155055	9	5/22Length = 44 Rattus norvegicus CD48	complex, epsilon subunit
l		ĺ		antigen (Cd48), mRNA.	
2567	17854	NM_139103	lii	5/22Length = 1422	0040 "
- 2007	11001	1441_100100	- 111	Rattus norvegicus Estrogen-	CD48 antigen
			1	regulated protein CBL2, 2.4kD	ECTo Marido distributa Toccon
		1		(LOC245963), mRNA,	ESTs, Weakly similar to T09065 hypothetical
2568	17868	NM_139104	r,s,t	5/22Length = 1888	protein - mouse (M.musculus), Estrogen-regulated
	.,,,,,,,	100104	1,0,1	Rattus norvegicus	protein CBL20, 20.4kD
1				ribonuclease/angiogenin	
]			1	inhibitor (Rnh1),mRNA.	1
2569	18108	NM_139105	a,n,o,ll	11/22Length = 1664	Shannahara da i i i i i i i i i i i i i i i i i i
		700100	0,11,0,11	Rattus norvegicus G protein-	ribonuclease/angiogenin inhibitor
1				coupled hepta-helical receptor	
1				Ig-Hepta (Ig-Hepta), mRNA.	
2570	14463	NM_139110	ü	5/22Length = 4951	C protoin coupled bests believe recenter to the sta
			<del> </del>	Rattus norvegicus stem cell	G protein-coupled hepta-helical receptor Ig-Hepta
			1	derived neuronal survival protein	
			1	precursor (Sdnsf), mRNA.	stem cell derived neuronal survival protein
2571	22595	NM_139253	cc,dd	5/22Length = 1771	precursor
				Rattus norvegicus	precuisor
			ļ	mannosidase, alpha, class 2C,	
				member 1(Man2c1), mRNA.	
2572	1803	NM_139256	c	5/22Length = 336	mannosidase, alpha, class 2C, member 1
				Rattus norvegicus brain-	marmosidase, alpha, class 20, member 1
1				enriched SH3-domain protein	
1			1	Besh3 (Besh3), mRNA.	
2573	9775	NM_139334	С	h	brain-enriched SH3-domain protein Besh3
				Rattus norvegicus LRP16	
			1	- 1	Rattus norvegicus LRP16-like protein mRNA,
2574	12450	NM_139337	c,hh	1	complete cds
				Rattus norvegicus	
	l		1	homocysteine respondent	
	-				Rattus norvegicus homocysteine respondent protein
2575	21818	NM_139342	bb		HCYP2 mRNA, complete cds
	1				
-				Rattus norvegicus Rho GTPase	ESTs, Moderately similar to RHG4_HUMAN Rho-
0	40			activating protein 4 (Arhgap4),	GTPase-activating protein 4 (Rho-GAP
2576	12804	NM_144740	l,m	mRNA. 11/22Length = 325	hematopoietic protein C1) (P115) [H.sapiens]
1	. 1			Rattus norvegicus adipocyte	
1		i		complement related protein of	ESTs, Weakly similar to 1917150A
	46			3kDa (Acrp3), mRNA.	collagen:SUBUNIT=alpha1:ISOTYPE=VIII [Rattus
2577	13712	VM_144744	ii	11/22Length = 767	norvegicus] [R.norvegicus]
1	l			Rattus norvegicus hypothetical	
2578	00===			protein RMT-7 (Rmt7),	Rattus norvegicus hypothetical protein RMT-7
	ワンファビビリ	VM_145084	gg l		mRNA, complete cds

SEQ ID   GLGC ID   No.   Model Code   Known Gene Name   Ur	Atty. Ref. 44921-5090-01-WO/2105485
Rattus norvegicus pyruvate dehydrogenase phosphatase isoenzyme2 (Pdp2), mRNA. ph   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   P	(学権) アンドロー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
2579   15761 NM_145091   cc,dd,jj,kk   11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus Ismina-associated polypeptide 1C (Lap1c), mRNA. 11/22Length = 175   Rattus norvegicus peroxisomal Ca-dependent solute carrier-like protein (Pcscl), mRNA. 11/22Length = 315   ES Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA.11/22Length = 185   Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA.11/22Length = 187   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451	Unigene Sequence Cluster Title
2579   15761 NM_145091   Cc,dd,jj,kk   isoenzyme2 (Pdp2), mRNA.	
2579   15761   NM_145091   Cc,dd,jj,kk   11/22Length = 175	
2580   1948 NM_145092   b,l,m   11/22Length = 175   ph	Rattus norvegicus pyruvate dehydrogenase
2580 1948 NM_145092 b,I,m 231 Rattus norvegicus zinc finger, DHPC domain containing 2(Zdhhc2), mRNA. 11/22Length = 1487  2581 6731 NM_145096 hh = 1487  2582 6988 NM_145677 j,k Rattus norvegicus peroxisomal Ca-dependent solute carrier-like protein (Pcsd), mRNA. 11/22Length = 315 ES Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA. 11/22Length = 315 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus ubublin, gamma 1 (Tubg1), mRNA. 11/22Length = 142 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 EST. Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 EST. Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 EST. Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 EST. Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 EST.	phosphatase isoenzyme 2 mRNA, complete cds
2580   1948 NM_145092   b,l,m   231   Rattus norvegicus zinc finger, DHHC domain containing 2(Zdhhc2), mRNA. 11/22Length = 1487   Rattus norvegicus peroxisomal Ca-dependent solute carrier-like protein (Pcscl), mRNA. 11/22Length = 1487   Rattus norvegicus peroxisomal Ca-dependent solute carrier-like protein (Pcscl), mRNA. 11/22Length = 315   Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA. 11/22Length = 989   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus ubublin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 3	y and a straight of the cody
2580	
2581 6731 NM_145096 hh	Rattus norvegicus lamina-associated polypeptide
2581   6731 NM_145096   hh	IC (LAP1C) mRNA, complete cds
2581   6731   NM_145096   hh   2(Zdhhc2), mRNA. 11/22Length   Rack cds   1487	
Rattus norvegicus peroxisomal Ca-dependent solute carrier-like protein (Pcscl), mRNA. 11/22Length = 315   ES Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA.11/22Length = 989   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-co	
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Ca-dependent solute carrier-like protein (Pcscl), mRNA.	ds
Ca-dependent solute carrier-like protein (Pcscl), mRNA.	
2582   6988 NM_145677   j,k   protein (Pcscl), mRNA.   11/22Length = 315   ES	
2582 6988 NM_145677 j,k 11/22Length = 315 ES  Rattus norvegicus Max dimerization protein 3 (Mad3), mRNA.11/22Length = 989 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297 Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 2297 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1	
Rattus norvegicus Max   dimerization protein 3 (Mad3), mRNA.11/22Length = 989   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA.   11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA.   11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA.   11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA.   11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1   (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norvegicus G protein-coupled receptor 37-like 1 (Rattus norve	
2583   305   NM_145773   u,v     dimerization protein 3 (Mad3), mRNA.11/22Length = 989   Rat   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   EST   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451   Rattus norvegicus G protein-coupled receptor 37-like 1	STs
2583 305 NM_145773	
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2584   15640 NM_145775   h,l,j,k,r     Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1	Rattus norvegicus Myx mRNA, complete cds
2584   15640 NM_145775	
2584 15640 NM_145775 h,l,j,k,r 11/22Length = 2297 Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA.  11/22Length = 2297 Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA.  2585 22972 NM_145778 e 11/22Length = 142 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1	
Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA.  11/22Length = 2297 Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA.  11/22Length = 142 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 EST  Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 EST  Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 EST  Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein-coupled receptor 37-like 1	
Rattus norvegicus nuclear receptor subfamily 1, group D, member 1 (Nr1d1), mRNA. 11/22Length = 2297   Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST Rattus norvegicus G protein-coupled receptor 37-like 1	at Rev-ErbA-alpha protein mRNA, complete cds
2584   15641 NM_145775   h, l	
2584 15641 NM_145775 h,I 11/22Length = 2297 Rat Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1	
Rattus norvegicus tubulin, gamma 1 (Tubg1), mRNA. 11/22Length = 142   Rattus norvegicus G protein-coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST	
2585 22972 NM_145778 e 11/22Length = 142 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1	at Rev-ErbA-alpha protein mRNA, complete cds
2585 22972 NM_145778 e 11/22Length = 142 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1 Rattus norvegicus G protein- coupled receptor 37-like 1	
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2586 20106 NM_145784 ii	attus norvegicus mRNA for tubulin, complete cds
2586 20106 NM_145784 ii (Gpr37l1), mRNA. 11/22Length = 2451 EST  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1	
2586 20106 NM_145784 ii = 2451 EST  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1	
Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1	
Coupled receptor 37-like 1 (Gpr37l1), mRNA. 11/22Length = 2451   EST	STs STS
2586 20515 NM_145784  I	
2586 20515 NM_145784  II	
Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451  Rattus norvegicus G protein- coupled receptor 37-like 1  Rattus norvegicus G protein- coupled receptor 37-like 1	
Rattus norvegicus G protein- coupled receptor 37-like 1 (Gpr3711), mRNA. 11/22Length = 2451 Rattus norvegicus G protein- coupled receptor 37-like 1	STs
2586 19976 NM_145784 jj,kk (Gpr37l1), mRNA. 11/22Length = 2451 Rattus norvegicus G protein-coupled receptor 37-like 1	
2586   19976 NM_145784   jj,kk	
Rattus norvegicus G protein- coupled receptor 37-like 1	
coupled receptor 37-like 1	STs
1 1/0-0741 014 4400 - 1	
(Gpr37I1), mRNA. 11/22Length	
2586 20046 NM_145784 w,x = 2451 ESTs	Ts
Rattus norvegicus fatty acid	
binding protein 5, epidermal	
d,j,k,t,bb,gg,kk (Fabp5), mRNA. 11/22Length = Rattu	ttus norvegicus Sprague-Dawley lipid-binding
2007 20740 NW_145878 J.II   664   prote	tein mRNA, complete cds
Rattus norvegicus PLRR-4	• • • • • • • • • • • • • • • • • • • •
polymorphic leucine-rich repeat	
protein (Plrr4), mRNA. Rattu	ttus norvegicus clone PLRR-4 polymorphic
2000 0090 NM_14/140   U,V   11/22Length = 2275   leucir	cine-rich repeat protein mRNA, complete cds
Rattus norvegicus ischemia	
related factor vof-21	
(LOC259228), mRNA.	·
2589 25435 NM_147208 s,t 11/22Length = 4885	j

TABLE 1		:	. ::		Atty. Ref. 44921-5090-01-WO/2105485
050.5	01.00.15	GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
				Rattus norvegicus nuclear	
			1	receptor subfamily 1, group D,	
			1.	member 2 (Nr1d2), mRNA.	Rattus norvegicus nuclear receptor Rev-ErbA-beta
2590	90	NM_147210	h,I	11/22Length = 1996	mRNA, partial cds
				Rattus norvegicus SH3 domain	
0504	4700		1	binding protein CR16 (CR16),	Rattus norvegicus SH3 domain binding protein
2591	1/60	NM_147211	d,kk	mRNA.11/22Length = 4359	(CR16) mRNA, complete cds
				Rattus norvegicus outer	
			•	mitochondrial membrane	
0500	40544	450005	1.	receptor rTOM2 (LOC26661),	Rattus norvegicus outer mitochondrial membrane
2592	10544	NM_152935	s,t,u,v	mRNA. 11/22Length = 976	receptor rTOM20 mRNA, complete cds
				Rattus norvegicus pancreatic	
				secretory trypsin inhibitor type II	
0500	40700	1114 450000	l	(PSTI-II) (LOC26662), mRNA.	Rat pancreatic secretory trypsin inhibitor type II
2593	12/00	NM_152936	h,I	11/22Length = 379	(PSTI-II) mRNA, complete cds
				Rattus norvegicus heat shock 7	
ا محما		NIN 450000	1	kDa protein 4 (Hspa4), mRNA.	Rattus norvegicus ischemia responsive 94 kDa
2594	15/11	NM_153629	p	1/22Length = 4521	protein (irp94) mRNA, complete cds
	į		1	D-#	FOT FOT WILL SEE STATE
				Rattus norvegicus paired	ESTs, ESTs, Highly similar to S37300 glycogen
0505	4004	104 450004	l	mesoderm homeobox 1 (Pmx1),	phosphorylase (EC 2.4.1.1), brain - rat
2595		NM_153821	h,l	mRNA.1/22Length = 1375	[R.norvegicus]
2596	19888	S56464	cc,dd		ESTs
0507	45000	050070	1	glutamate receptor, ionotropic,	
2597		S56679	aa,bb	AMPA1 (alpha 1)	glutamate receptor, ionotropic, AMPA1 (alpha 1)
2598		S59892	b,l,m		
2599 2600		S59893	b,l,m	<u> </u>	
		S61960 S63519	jj,kk	ferritin light chain 1	ferritin light chain 1
2601 2602		S69206	a,c,r,w,x		ESTs
2002	9511	309200	lii	mast cell protease 1	mast cell protease 1
2603	18647	S69316	do		ESTs, Weakly similar to HS9B_RAT Heat shock
2604		S75280	d,e		protein HSP 90-beta (HSP 84) [R.norvegicus]
2605		S76466	ac .		
2000	20000	010400	99		ESTs, Highly similar to MLES_RAT Myosin light
				1	chain alkali, smooth-muscle isoform (MLC3SM)
2606	24469	S77858	li i		
	2-1-103	0.7000	11		[R.norvegicus] ESTs, Highly similar to A37100 myosin regulatory
2607	21583	S77900	bb,kk		light chain A, smooth muscle - rat [R.norvegicus]
2607		S77900	jj,kk	-	ngia Giani A, Shiboth muscle - tat [K.norveyicus]
	200-10	J. 1000	III-IVIC	<del></del>	
					ESTs, Highly similar to I56581 dnaK-type molecular
2608	17626	S78556	gg		chaperone grp75 precursor - rat [R.norvegicus]
2608		S78556	n,cc,dd,ll		anaparone grpro precursor - rat (v.norvegicus)
	2.30 .1	0000	11,00,00,11	protein phosphatase 1,	
2609	25550	S79213	d	regulatory (inhibitor) subunit 2	1
2610		S79939	hh	regulatory (minibitor) subtliff 2	
2611		S98336	u,v		
2612		U01347	I,m		
2613		U02534	b		
2614		U06230	f,g	protein S	protein S
			.3	mini chromosome maintenance	mini chromosome maintenance deficient 6 (S.
2615	16675	U17565	r,ii	deficient 6 (S. cerevisiae)	cerevisiae)
2616		U21718	d,hh	10. 00.010100)	
2617	22196	U21719	d		ESTs
2618	25590	U21720	hh		
2619		U25282	b,l,m		
2620		U26310	gg	tensin	
				1	

TABLE 1	J.		<del></del>	<del></del>	Atty. Ref. 44921-5090-01-WO/2105485
-		GenBank Acc.		I.	7 (kg): Not. 44321-3030-01-WO/2103483
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
2621	399	U31668	p,q	E2F transcription factor 5	E2F transcription factor 5
2622	20224	U47014	b,u,v	proprotein convertase subtilisin/kexin type 5	proprotein convertase subtilisin/kexin type 5
2623	14554	U48828	11		R.norvegicus H1SHR mRNA, Rattus norvegicus retroviral-like ovarian specific transcript 30-1 mRNA
2624	04054	1150404			
2624	21654	U53184	a,e,j,k,q,y,z,kk	LPS-induced TNF-alpha factor	LPS-induced TNF-alpha factor Rattus norvegicus proline rich protein mRNA,
2625		U61729	cc,dd,ll		complete cds
2626	25618	U64705	r		
2626		U64705	r		
2627		U68562	cc,dd	heat shock protein 60 (liver)	heat shock protein 60 (liver)
2628		U70270	n,o		
2629	1715	U72660	a,jj,kk	Ninjurin	Ninjurin
				A kinase (PRKA) anchor protein	
2630		U75404	u,v	(gravin) 12	A kinase (PRKA) anchor protein (gravin) 12
2631		U75405	g		
2632	25638	U75923	99	isoleucine-tRNA synthetase	
2000	47000	1170000		G protein-coupled receptor VTR	
2633		U76206	jj,kk	15-20	G protein-coupled receptor VTR 15-20
2634 2634	25643	U77829 U77829	cc,dd	growth arrest specific 5	
			d	growth arrest specific 5	ESTs
2635 2636		U83119 U89745	9,99		
2637		U90725	u,ii hh	unknown protein	
2638		U95157		lipoprotein-binding protein	lipoprotein-binding protein
2639		X02904	b,l,m	ryanodine receptor type II	
2640		X03347	ii D.a.	glutathione S-transferase, pi 2	glutathione S-transferase, pi 2
2040	20103	700047	p,q	FBJ murine osteosarcoma viral	FBJ murine osteosarcoma viral (v-fos) oncogene
2641		X06769	p,q	(v-fos) oncogene homolog	homolog
2642		X07551	c,w,x,cc,dd		<u>-</u>
2643	25671	X07686	g		
2644	2464	X13411	u,v	Eph receptor B2 (ELK-related protein tyrosine kinase)	Eph receptor B2 (ELK-related protein tyrosine kinase)
2645	20810	X14181	f,g,w,x		ESTs, Highly similar to R5RT18 ribosomal protein
<del>  </del>	20010	7.17.01	1,9,10,1		L18a, cytosolic [validated] - rat [R.norvegicus] ESTs, Highly similar to RL26_RAT 60S
2646	18541	X14671	g		RIBOSOMAL PROTEIN L26 [R.norvegicus]
	Ī			Rattus norvegicus	
.			· i	mitochondrial genome.	
12	21152	X14848	bb	9/22Length = 16,3	golgi SNAP receptor complex member 1
	.		ĺ		ESTs, Highly similar to RL7A_HUMAN 60S
2047	40044	V45040	,		ribosomal protein L7a (Surfeit locus protein 3) (PLA-
2647			f,g,w,x		X polypeptide) [R.norvegicus]
2647	206/9	X15013	f,g,aa		
2648	15626	X17665	w,x	ribosomal protein S16	ESTs, Highly similar to R3RT16 ribosomal protein
				nosona protent 510	S16, cytosolic [validated] - rat [R.norvegicus] ESTs, Highly similar to RS3_MOUSE 40S
2649	10819	X51536	99	ribosomal protein S3	ribosomal protein S3 [R.norvegicus]
2649				ibosomal protein S3	
					ESTs, Highly similar to RL9_RAT 60S RIBOSOMAL
2650	18250	K51706	N,X	ibosomal protein L9	PROTEIN L9 [R.norvegicus]
2651	20872	K51707	,w,x	ihacamal protoin C10	ESTs, Highly similar to R3RT19 ribosomal protein
2652	16715		c,dd,ii	ibosomal protein S19	S19, cytosolic [validated] - rat [R.norvegicus]
2652	16716		.c.,uu,ii		Rat mRNA for RT1.D beta chain
2653	20427				Rat mRNA for RT1.D beta chain
	-0.21/		·!	issoriiai proteiti 313	ribosomal protein S13

TABLE 1	i	<del></del>		* G	Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.			
SEQ ID	GLGC ID	No.	Model Code	Known Gene Name	Unigene Sequence Cluster Title
			(		ESTs, Highly similar to RL12_RAT 60S
2654		X53504	g,w,x		RIBOSOMAL PROTEIN L12 [R.norvegicus]
2654		X53504	<u>g</u>		
2655		X53581	hh		
2655	20617	X53581	g	T ARC (ATD	
2050	4007	VC7E00		Transporter 1, ABC (ATP	Transported ARO (ATD big Program)
2656	1037	X57523	d	binding cassette)	Transporter 1, ABC (ATP binding cassette)
					ESTs, Highly similar to RS18_HUMAN 40S
2657	15106	X57529	h,l,aa		ribosomal protein S18 (KE-3) (KE3) [R.norvegicus]
2658		X58200	g	ribosomal protein L29	ribosomal protein L29
2658		X58200	h,l,w,x	ribosomal protein L23	Inbosomai protein L25
2659		X58465	g,w,x	Ribosomal protein S5	Ribosomal protein S5
2659		X58465	g,w,x	Ribosomal protein S5	Ribosomal protein S5
2660		X59375	b,d,l,kk	Tubocoma protein co	i usoconiai protoni do
2661		X59864	1		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
					R.norvegicus ASI mRNA for mammalian equivalent
2662	17176	X60212	f		of bacterial large ribosomal subunit protein L22
				amyloid beta (A4) precursor	1
				protein-binding, family B,	amyloid beta (A4) precursor protein-binding, family
2663	25711	X60468	s,t	member 1	B, member 1
2664	25716	X61295	c,g,hh		
					Rattus norvegicus interferon-inducible protein
2665	21657	X61381	d,j,k,m,y,z,kk		variant 10 mRNA, complete cds
					ESTs, Highly similar to RL8_HUMAN 60S ribosomal
2666	15875	X62145	h,r _	ribosomal protein L8	protein L8 [R.norvegicus]
			_		ESTs, Highly similar to RL3_RAT 60S RIBOSOMAL
2667	13646	X62166	n,o,w,x,kk,ll		PROTEIN L3 (L4) [R.norvegicus]
-					ESTs, Highly similar to R3RT25 ribosomal protein
2668	15387	X62482	w,x		S25, cytosolic [validated] - rat [R.norvegicus]
					ESTs, Highly similar to S23433 glutathione
2669	16780	X62660	c,f,g	alpha 4	transferase (EC 2.5.1.18) 8 - rat [R.norvegicus]
ļ				Inhibitor of nuclear factor of	
0070	05000	V02504		kappa light chain gene enhancer	
2670	25090	X63594	j,k	in B-cells, alpha	CCT - Highly similar to D2DT24 sibosomal protoin
2074	20044	VCECOO	( - aa dd		ESTs, Highly similar to R3RT3A ribosomal protein
2671	20044	X65228	f,g,cc,dd		L23a, cytosolic [validated] - rat [R.norvegicus] R.norvegicus mRNA for cytosolic resiniferatoxin-
2672	426	X67877	c,s,t,gg		binding protein
2673		X68101	ee,ff		R.norvegicus trg mRNA
2674		X70369	c,g,bb	procollagen, type III, alpha 1	procollagen, type III, alpha 1
2675		X70667	l,m	melanocortin 3 receptor	processing of the manner of
2676		X73371	e,jj,kk	mountouring receptor	R.norvegicus mRNA for Fc gamma receptor
2677		X75207	aa,bb	Cyclin D1	Cyclin D1
2678		X76456	u,v		
2679		X76489	s,t	CD9 antigen (p24)	
2680		X77117	bb		
2681	25743	X80130	aa,bb		
2682	18621	X82669	ii	RT1 class lb gene	RT1 class lb gene
2683		X89694	b,l,m		
2684		X89702	j,k		
2685		X89706	b,c,u,v		
2686	18031	X94551	f,r	laminin, gamma 1	laminin, gamma 1
			a,j,k,p,q,y,z,ee	·	ESTs, Highly similar to S33363 gly96 protein -
2687		X96437	,ff		mouse [M.musculus]
2687	25770	X96437	b,c,u,v,y		
				uroporphyrinogen	
2688	19279	Y00350	a,aa,bb,jj,kk	decarboxylase	uroporphyrinogen decarboxylase

TABLE 1					Alty, Ref. 44921-5090-01-WO/2105485
CEO ID	01.00.10	GenBank Acc.			
	GLGC ID		Model Code	Known Gene Name	Unigene Sequence Cluster Title
2689		Y07534	aa	Serine protease inhibitor	Serine protease inhibitor
2690		Y08355	i,m	oxidative stress induced	oxidative stress induced
2691	18352	Z12298	aa,bb	decorin	decorin
				mitogen activated protein kinase	
2692	25790	Z21935	b,u,v	4	
		JI		A disintegrin and	
				metalloprotease domain	A disintegrin and metalloprotease domain (ADAM)
2693			cc,dd	(ADAM) 10	10
2694	17481	Z49761	w,x		R.norvegicus mRNA for RT1.Ma
					ESTs, Moderately similar to T17342 hypothetical
					protein DKFZp586K1924.1 - human (fragment)
					[H.sapiens], R.norvegicus hsp70.2 mRNA for heat
2695			y,z,ee,ff		shock protein 70
2696					procollagen, type I, alpha 1
2696	15570	Z78279	c,f,g,j,k	procollagen, type I, alpha 1	procollagen, type I, alpha 1

TABLE	2			Atty, Ref. 44921-5090-01-WO/2105485
SEO ID	GLCC ID	GenBank Acc.		DALL
SEQ ID	GLGC ID	NO.	Model Code	Pathways
1649	20127	AJ011116		Actions of Nitric Oxide in the Heart, Arginine and proline metabolism, Hypoxia-
2037		NM_019212	j, k, n, o	Inducible Factor in the Cardiovascular System
2284		NM_031556	f, w, x, hh ij, kk	Actions of Nitric Oxide in the Heart, Integrin Signaling Pathway
2204	20130	1414 02 1220	]], NA ·	Actions of Nitric Oxide in the Heart, Integrin Signaling Pathway
		-		Activation of Csk by cAMP-dependent Protein Kinase Inhibits Signaling
1 (				through the T Cell Receptor, Activation of cAMP-dependent protein kinase,
				PKA, Attenuation of GPCR Signaling, CCR3 signaling in Eosinophils,
				ChREBP regulation by carbohydrates and cAMP, Erk1/Erk2 Mapk Signaling
		1		pathway, Phospholipase C-epsilon pathway, Signaling Pathway from G-
2019	15975	NM_019132	)ii	Protein Families, Transcription factor CREB and its extracellular signals
				Adhesion Molecules on Lymphocyte, B Lymphocyte Cell Surface Molecules,
				CTL mediated immune response against target cells , Cells and Molecules
1			1	involved in local acute inflammatory response, Monocyte and its Surface
1 1			1	Molecules, Neutrophil and Its Surface Molecules, T Cytotoxic Cell Surface
1835	2555	NM_012967	a, y, z, kk	Molecules, T Helper Cell Surface Molecules
			1	Adhesion Molecules on Lymphocyte, Cells and Molecules involved in local
			j	acute inflammatory response, Erk and PI-3 Kinase Are Necessary for
			1	Collagen Binding in Corneal Epithelia, Erk1/Erk2 Mapk Signaling pathway,
] ]				Integrin Signaling Pathway, Monocyte and its Surface Molecules, PTEN
1250	44000	A1477200		dependent cell cycle arrest and apoptosis, Ras-Independent pathway in NK
1356	14909	AI177366	f, g, l, m, kk	cell-mediated cytotoxicity
1826	1625	NM_012924		Adhesion Molecules on Lymphocyte, Monocyte and its Surface Molecules,
1020	1023	14141_012924	gg	Neutrophil and Its Surface Molecules AKT Signaling Pathway, ATIVI Signaling Pathway, Acetylation and
			İ	Deacetylation of RelA in The Nucleus, Activation of PKC through G protein
]				coupled receptor, CD40L Signaling Pathway, Double Stranded RNA Induced
]				Gene Expression, Erythropoietin mediated neuroprotection through NF-kB,
	`			HIV-I Nef: negative effector of Fas and TNF, Induction of apoptosis through
				DR3 and DR4/5 Death Receptors , Influence of Ras and Rho proteins on G1
		•		to S Transition, NF-kB Signaling Pathway, Neuropeptides VIP and PACAP
<b>!</b>	į			inhibit the apoptosis of activated T cells, Signal transduction through IL1R, T
				Cell Receptor Signaling Pathway, TNF/Stress Related Signaling, TNFR2
				Signaling Pathway, The 41BB-dependent immune response, Toll-Like
2670	25090	X63594	j, k	Receptor Pathway, interact6-1
				AKT Signaling Pathway, ChREBP regulation by carbohydrates and cAMP,
				Erk1/Erk2 Mapk Signaling pathway, Inactivation of Gsk3 by AKT causes
				accumulation of b-catenin in Alveolar Macrophages, Regulation of ck1/cdk5
1040	2000	NINA 047000		by type 1 glutamate receptors, Skeletal muscle hypertrophy is regulated via
1918	3203	NM_017039	С	AKT/mTOR pathway, WNT Signaling Pathway, mTOR Signaling Pathway
815	17504	MINTOREO	;;   ₁   ₂   ₂	AKT Signaling Pathway, Growth Hormone Signaling Pathway, Regulation of
010	17024	AI010568	jj, kk	elF4e and p70 S6 Kinase
1936	10886	NM_017094	ii	AKT Signaling Pathway, Growth Hormone Signaling Pathway, Regulation of
	10000	1111_017034		elF4e and p70 S6 Kinase  AKT Signaling Pathway, Growth Hormone Signaling Pathway, Regulation of
1936	10887	NM_017094	jj, kk	lelF4e and p70 S6 Kinase
	.5007	077.007	J) 141	AKT Signaling Pathway, Growth Hormone Signaling Pathway, Regulation of
1936	10888	NM_017094	e, r, hh	elF4e and p70 S6 Kinase
2082			j, k	Alanine and aspartate metabolism, Aminoacyl-tRNA biosynthesis
			<del></del>	Alanine and aspartate metabolism, Citrate cycle (TCA cycle), Pyruvate
1785	1478	NM_012744	n, o	metabolism
				Alpha-synuclein and Parkin-mediated proteolysis in Parkinson's disease, Role
2028			n, o	of Parkin in Ubiquitin-Proteasomal Pathway
143			li .	Aminoacyl-tRNA biosynthesis, Glycine, serine and threonine metabolism
450	12031	AA893860	y, z	Aminoacyl-tRNA biosynthesis, Glycine, serine and threonine metabolism

TABLE	2	<del></del>		Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc		
SEQ ID	GLGC ID	No.	Model Code	Pathways
				Aminoacyl-tRNA biosynthesis, Phenylalanine, tyrosine and tryptophan
1376		AI178283	r	biosynthesis
2426	7927	NM_053765	d i	Aminosugars metabolism
1				Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose
1				metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and
1748	619	NM_012565	l, m, n, o	sucrose metabolism
				Aminosugars metabolism, Erythromycin biosynthesis, Fructose and mannose
1				metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and
2093		NM_022179	h, I, w, x, dd	sucrose metabolism
1771		NM_012661	cc, dd	Androgen and estrogen metabolism
2195	25070	NM_024392	r, ii	Androgen and estrogen metabolism
				Androgen and estrogen metabolism, Pentose and glucuronate
0477	45405	NI 4 057405		interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose
2477	15125	NM_057105	jj, kk, li	metabolism
				Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent
				signaling, Anthrax Toxin Mechanism of Action, Bioactive Peptide Induced
				Signaling Pathway, Erk1/Erk2 Mapk Signaling pathway, Integrin Signaling
				Pathway, Links between Pyk2 and Map Kinases, MAPKinase Signaling
2510	17564	AIA 422002	h.h.	Pathway, Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP
2510	17304	NM_133283	hh	kinase pathway  Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the
				Cardiovascular system, Regulation of BAD phosphorylation, Role of
1924	010	NM_017059	d	
1324	910	NW_017039	10	Mitochondria in Apoptotic Signaling, p53 Signaling Pathway Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the
1 .				Cardiovascular system, Regulation of BAD phosphorylation, Role of
1924	911	NM_017059	d	Mitochondria in Apoptotic Signaling, p53 Signaling Pathway
		017000	<u> </u>	Apoptotic Signaling in Response to DNA Damage, Hypoxia and p53 in the
1				Cardiovascular system, Regulation of BAD phosphorylation, Role of
1924	912	NM_017059	d, l, m	Mitochondria in Apoptotic Signaling, p53 Signaling Pathway
602		AA945172	е	Arginine and proline metabolism
2214		NM_031011	n, o	Arginine and proline metabolism
2214	15683	NM_031011	cc, dd, gg	Arginine and proline metabolism
			1 3	Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile
			İ	acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid
				metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine
				degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan
				metabolism, Valine, leucine and isoleucine degradation, beta-Alanine
119	11901	AA801058	d	metabolism
				Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile
				acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid
			İ	metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine
				degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan
4005	0001-			metabolism, Valine, leucine and isoleucine degradation, beta-Alanine
1988	20913	NM_017272	n, o	metabolism
	1			Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile
.	1	-		acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid
	İ			metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine
				degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan
2140	20045	NIN ACCION	l.e.	metabolism, Valine, leucine and isoleucine degradation, beta-Alanine
2118	20915	NM_022407	kk	metabolism

TABLE	2			Atty. Ref. 44921-5090-01-WO/210548
:		GenBank Acc		VOIZ 10040
SEQ ID	GLGC ID	No.	Model Code	Pathways
				Arginine and proline metabolism, Ascorbate and aldarate metabolism, Bile
				acid biosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycerolipid
		•		metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Lysine
				degradation, Propanoate metabolism, Pyruvate metabolism, Tryptophan
		1		metabolism, Valine, feucine and isoleucine degradation, beta-Alanine
2353	12299	NM_032416	c	metabolism
			<u> </u>	Arginine and proline metabolism, Glycine, serine and threonine metabolism,
1296	19118	AI175281	hh	Urea cycle and metabolism of amino groups
			1	Arginine and proline metabolism, Glycine, serine and threonine metabolism,
1798	16947	NM_012793	b, u, v, jj, kk	Urea cycle and metabolism of amino groups
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Arginine and proline metabolism, Hypoxia-Inducible Factor in the
1842	19393	NM_012998	h, t	Cardiovascular System
				Salata Tabbana System
1739	4467	NM_012529	f, g	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
			1	
1739	4468	NM_012529	9	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
			1	yours and promise modes is in, cross syste and metabolism of amino groups
1862	13283	NM_013078	b	Arginine and proline metabolism, Urea cycle and metabolism of amino groups
2128	4242	NM_022521	b, l, m	Arginine and proline metabolism. Urea cycle and metabolism of amino groups
				Arginine and proline metabolism, Urea cycle and metabolism of amino groups
			1	via Pyk2 dependent signaling, BCR Signaling Pathway, D4-GDI Signaling
				Pathway, EGF Signaling Pathway, EPO Signaling Pathway, FAS signaling
				pathway ( CD95 ), Fc Epsilon Receptor I Signaling in Mast Cells, Hypoxia-
į į				Inducible Factor in the Cardiovascular System, IGF-1 Signaling Pathway, IL 2
				signaling pathway, IL 6 signaling pathway, Inhibition of Cellular Proliferation
				by Gleevec, Insulin Signaling Pathway, Integrin Signaling Pathway, Links
			İ	between Pyk2 and Map Kinases, MAPKinase Signaling Pathway, Nerve
	ļ	*		growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-
ļ				insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by
1				the Transcriptional Regulator DREAM, Signal transduction through IL1R,
1				Signaling Pathway from G-Protein Families, T Cell Receptor Signaling
				Pathway, TNF/Stress Related Signaling, TNFR1 Signaling Pathway, TPO
				Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial
2089	22351	NM_021835	ee, ff	Cell , The 41BB-dependent immune response, Toll-Like Receptor Pathway,
				ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in
2173	352	NM_024127	p, q	the Cardiovascular system, p53 Signaling Pathway
				ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in
2173	353	NM_024127	q, ee, ff, gg	the Cardiovascular system, p53 Signaling Pathway
				ATM Signaling Pathway, Cell Cycle: G2/M Checkpoint, Hypoxia and p53 in
,2173		NM_024127	p, q, ee, ff	the Cardiovascular system, p53 Signaling Pathway
1205	17914	AI169159	hh	ATP Synthesis, Oxidative phosphorylation
1209		AI169265	gg	ATP Synthesis, Oxidative phosphorylation
2000		NM_017311	n, o	ATP Synthesis, Oxidative phosphorylation
2327	16178	NM_031785	f	ATP Synthesis, Oxidative phosphorylation
2448		NM_053884	99	ATP Synthesis, Oxidative phosphorylation
2566		NM_139099	g, hh	ATP Synthesis, Oxidative phosphorylation
2566	17204	NM_139099	9	ATP Synthesis, Oxidative phosphorylation
			.~	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

TABLE	2		, TA.	Atty. Ref. 44921-5090-01-WO/2105485
250 15	01.00.10	GenBank Acc.		
SEQID	GLGC ID	No.	Model Code	Pathways
1319	·	NO. Al176185	p, q, gg	DCR Signaling Painway, EGF Signaling Painway, EPO Signaling Painway, FC Epsilon Receptor I Signaling in Mast Cells, IGF-1 Signaling Pathway, IL 2 signaling pathway, IL 3 signaling pathway, IL 6 signaling pathway, IL-2 Receptor B Protein Interaction Pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il3, il6, insulin, ngf, pdgf, tpo BCR Signaling Pathway, EGF Signaling Pathway, EPO Signaling Pathway, IL 2 signaling pathway, IL 3 signaling pathway, IL 6 signaling Pathway, IL-2 Receptor B Protein Interaction Pathway, Inhibition of Cellular Proliferation by Gleevec, Insulin Signaling Pathway, Nerve growth factor pathway (NGF), PDGF Signaling Pathway, Pertussis toxin-insensitive CCR5 Signaling in
2641	10181	X06769	n a	Macrophage, Repression of Pain Sensation by the Transcriptional Regulator DREAM, Signaling Pathway from G-Protein Families, T Cell Receptor Signaling Pathway, TPO Signaling Pathway, TSP-1 Induced Apoptosis in Microvascular Endothelial Cell, Toll-Like Receptor Pathway, egf, epo, igf-1, il2, il3, il6, insulin, ngf, pdgf, tpo
2041	10101	7,001.00	p, q	Benzoate degradation, Bile acid biosynthesis, Butanoate metabolism, Fatty
1930	18956	NM_017075	aa	acid biosynthesis (path 2), Fatty acid metabolism, Lysine degradation, Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Tryptophan metabolism
				Benzoate degradation, Bile acid biosynthesis, Butanoate metabolism, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Lysine degradation,
1930	18957	NM_017075	r, s, t, 11	Propanoate metabolism, Pyruvate metabolism, Synthesis and degradation of ketone bodies, Tryptophan metabolism
- 1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0	,,,,,,	Benzoate degradation, Fatty acid metabolism, Lysine degradation,
1150	23596	Al105435	bb	Tryptophan metabolism
4720	00000	NA 040400		Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism,
1732	23698	NM_012489	l	Valine, leucine and isoleucine degradation Bile acid biosynthesis, Fatty acid metabolism, Glycerolipid metabolism,
				Glycolysis / Gluconeogenesis, Methane metabolism, Pyruvate metabolism,
280	16074	AA874874	p, q	Tyrosine metabolism
1781		NM_012732	f, g	Bile acid biosynthesis, Glycerolipid metabolism
1781			g	Bile acid biosynthesis, Glycerolipid metabolism
1970		NM_017212	jj, kk	Bioactive Peptide Induced Signaling Pathway
1970	13940	NM_017212	a	Bioactive Peptide Induced Signaling Pathway Bioactive Peptide Induced Signaling Pathway, EPO Signaling Pathway,
				Erythropoietin mediated neuroprotection through NF-kB, Growth Hormone
				Signaling Pathway, IFN gamma signaling pathway, IL 3 signaling pathway, IL
				6 signaling pathway, IL22 Soluble Receptor Signaling Pathway, Inhibition of
				Cellular Proliferation by Gleevec, Stat3 Signaling Pathway, TPO Signaling
·2276	12580	NM_031514	a, h, I, j, k, y, z	Pathway, epo, ifn_gamma, il3, il6, interact6-1, pdgf, tpo Bioactive Peptide Induced Signaling Pathway, EPO Signaling Pathway,
				Bioactive Peptide Induced Signaling Pathway, EPO Signaling Pathway, Erythropoietin mediated neuroprotection through NF-kB, Growth Hormone
				Signaling Pathway, IFN gamma signaling pathway, IL 3 signaling pathway, IL
				6 signaling pathway, IL22 Soluble Receptor Signaling Pathway, Inhibition of
				Cellular Proliferation by Gleevec, Stat3 Signaling Pathway, TPO Signaling
2276	12581	NM_031514	y, z, hh	Pathway, epo, ifn_gamma, il3, il6, interact6-1, pdgf, tpo
				Blood group glycolipid biosynthesis - neolact series, Galactose metabolism,
133	23828	AA817823	ä	Keratan sulfate biosynthesis, N-Glycans biosynthesis

TABLE	2		·	Atty, Ref. 44921-5090-01-WO/2105485
		GenBank Acc.	1	
SEQ ID	GLGC ID	No.	Model Code	Pathways
				Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism,
412	11997	AA892828	f, h, l	Valine, leucine and isoleucine biosynthesis
				Butanoate metabolism, Glycolysis / Gluconeogenesis, Pyruvate metabolism,
1313		AI176117	hh	Valine, leucine and isoleucine biosynthesis
2541	8692	NM_134387	hh	Butanoate metabolism, Pentose and glucuronate interconversions
4007	20000	NNA 047000	ļ.,	Butanoate metabolism, SREBP and controls lipid synthesis, Synthesis and
1987	20600	NM_017268	ļii	degradation of ketone bodies, Valine, leucine and isoleucine degradation
1987	20604	NM_017268	_	Butanoate metabolism, SREBP and controls lipid synthesis, Synthesis and
2465		NM_053995	r	degradation of ketone bodies, Valine, leucine and isoleucine degradation
2400	17733	14141_000990	g	Butanoate metabolism, Synthesis and degradation of ketone bodies  Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine,
2193	2811	NM_024386	cc, dd	leucine and isoleucine degradation
	2011	1411_02-7500	00, uu	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine,
2193	2812	NM_024386	w, x, cc, dd	leucine and isoleucine degradation
	2012		11, 1, 00, 00	Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine,
2193	2813	NM_024386	ь	leucine and isoleucine degradation
1587		Al237212	f, g, hh	Calcium Signaling by HBx of Hepatitis B virus
				3,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1
				Carbon fixation, Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate
2126	162	NM_022516	e, u, v	metabolism, Pyruvate metabolism, Reductive carboxylate cycle (CO2 fixation)
2365	1311	NM_053291	е	Carbon fixation, Glycolysis / Gluconeogenesis, Glycolysis Pathway
				Caspase Cascade in Apoptosis, FAS signaling pathway (CD95), HIV-I Nef:
				negative effector of Fas and TNF, Induction of apoptosis through DR3 and
873	20086	AI013260	z	DR4/5 Death Receptors , TNFR1 Signaling Pathway
				Catabolic Pathways for Arginine , Histidine, Glutamate, Glutamine, and
				Proline, D-Glutamine and D-glutamate metabolism, Glutamate metabolism,
544		AA925755	U	Nitrogen metabolism
1850	1338	NM_013022	r	CCR3 signaling in Eosinophils
1050	45004			CCR3 signaling in Eosinophils, Rac 1 cell motility signaling pathway, Rho cell
1952	15364	NM_017147	ļii	motility signaling pathway
4052	15205	NISA 047447	hh !!	CCR3 signaling in Eosinophils, Rac 1 cell motility signaling pathway, Rho cell
1952	10300	NM_017147	aa, bb, II	motility signaling pathway
2427	15006	NM_053769	oo dd	CD40L Signaling Pathway, Phosphatidylinositol signaling system, TNFR2
2421	13330	14IVI_033709	cc, dd	Signaling Pathway Cell Cycle: G1/S Check Point, Cyclin E Destruction Pathway, Cyclins and
				Cell Cycle Regulation, E2F1 Destruction Pathway, FAS signaling pathway (
			1	CD95 ), HIV-I Nef: negative effector of Fas and TNF, Influence of Ras and
			1	Rho proteins on G1 to S Transition, Overview of telomerase RNA component
			1	gene hTerc Transcriptional Regulation, RB Tumor Suppressor/Checkpoint
] [				Signaling in response to DNA damage, Regulation of p27 Phosphorylation
			1	during Cell Cycle Progression, TNFR1 Signaling Pathway, p53 Signaling
1658	17264	D25233	d	Pathway
				Cell Cycle: G1/S Check Point, Cyclins and Cell Cycle Regulation, Inactivation
]				of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages,
				Influence of Ras and Rho proteins on G1 to S Transition, WNT Signaling
1657	25041	D14014	f	Pathway, p53 Signaling Pathway
				Cell Cycle: G1/S Check Point, Cyclins and Cell Cycle Regulation, Inactivation
			1	of Gsk3 by AKT causes accumulation of b-catenin in Alveolar Macrophages,
			1	Influence of Ras and Rho proteins on G1 to S Transition, WNT Signaling
2677	24232	X75207	aa, bb	Pathway, p53 Signaling Pathway
				Cell Cycle: G1/S Check Point , Cytokines and Inflammatory Response,
			[	Erythrocyte Differentiation Pathway, Function of SLRP in Bone: An Integrated
.			1	View, Selective expression of chemokine receptors during T-cell polarization,
00-0	40700	NINE COCCO	1_	Signal transduction through IL1R, TGF beta signaling pathway, p38 MAPK
2079	18729	NM_021578	ľ	Signaling Pathway, tgf-beta

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TABLE	2		····	Atty, Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		
SEQ ID	GLGC ID	No.	Model Code	Pathways
				Cell Cycle: G2/M Checkpoint, Cyclin E Destruction Pathway, E2F1
73	13683	AA799788	е	Destruction Pathway
				Cell Cycle: G2/M Checkpoint, Cyclin E Destruction Pathway, E2F1
1702	13682	L38482	e	Destruction Pathway
2212		NM_031005	a, n, o	Cell to Cell Adhesion Signaling, Integrin Signaling Pathway
			-, ., .	Cells and Molecules involved in local acute inflammatory response, Cytokine
				Network, Cytokines and Inflammatory Response, Erythrocyte Differentiation
			1	Pathway, IL 17 Signaling Pathway, IL 5 Signaling Pathway, IL 6 signaling
				pathway, Regulation of hematopoiesis by cytokines, Signal transduction
1755	24716	NM_012589	j, k, p, q	through IL1R, il6, interact6-1
875		Al013394	d, jj, kk	
- 013	0130	A1013334	u, jj, kk	Chondroitin / Heparan sulfate biosynthesis
2275	17427	NM 024540	h	Citrate cycle (TCA cycle), Glutathione metabolism, Reductive carboxylate
2425		NM_031510	b, u, v	cycle (CO2 fixation)
	101/0	NM_053752	aa, bb	Citrate cycle (TCA cycle), Propanoate metabolism
				Control of skeletal myogenesis by HDAC & calcium/calmodulin-dependent
			1	kinase (CaMK), Erk1/Erk2 Mapk Signaling pathway, IGF-1 Signaling
			}	Pathway, Multiple antiapoptotic pathways from IGF-1R signaling lead to BAD
				phosphphorylation, Regulation of BAD phosphorylation, Skeletal muscle
2363	25072	NM_052807	j, k	hypertrophy is regulated via AKT/mTOR pathway, igf-1
				Cysteine metabolism, Glycolysis / Gluconeogenesis, Hypoxia-Inducible Factor
1915	17807	NM_017025	h, t	in the Cardiovascular System, Propanoate metabolism, Pyruvate metabolism
				Cysteine metabolism, Glycolysis / Gluconeogenesis, Propanoate metabolism,
1757	7125	NM_012595	aa, bb	Pyruvate metabolism
				Cytokine Network, Cytokines and Inflammatory Response, Dendritic cells in
				regulating TH1 and TH2 Development, IFN alpha signaling pathway, Signal
2017	20318	NM_019127	п, о	transduction through IL1R
872		AI013222	e	Cytokines and Inflammatory Response, PDGF Signaling Pathway, pdgf
				D-Arginine and D-ornithine metabolism, Glycolysis / Gluconeogenesis,
1910	8417	NM_017008	laa	Glycolysis Pathway
1583		AI236669	y, z, jj, kk	DNA polymerase, Purine metabolism, Pyrimidine metabolism
1951		NM_017141	s, t, bb	DNA polymerase, Purine metabolism, Pyrimidine metabolism
1951		NM_017141	0, 4, 22	DNA polymerase, Purine metabolism, Pyrimidine metabolism
470		AA899253	aa, bb	Effects of calcinurin in Keratinocyte Differentiation
1784		NM_012736	d d	Electron -Transfer Reaction in Mitochondria, Glycerolipid metabolism
		012700	-	Erk1/Erk2 Mapk Signaling pathway, IL-2 Receptor B Protein Interaction
				Pathway, Inhibition of Cellular Proliferation by Gleevec, Neuropeptides VIP
	1			and PACAP inhibit the apoptosis of activated T cells, Overview of telomerase
	1			protein component gene hTert Transcriptional Regulation , WNT Signaling
1759	2620	NM_012603		
1739	2020	14141_012003	a, p, q, y, z	Pathway, p38 MAPK Signaling Pathway
I	}			Erk1/Erk2 Mapk Signaling pathway, IL-2 Receptor B Protein Interaction
Ì	į			Pathway, Inhibition of Cellular Proliferation by Gleevec, Neuropeptides VIP
İ	[			and PACAP inhibit the apoptosis of activated T cells, Overview of telomerase
4	222		a, j, k, p, q, y,	protein component gene hTert Transcriptional Regulation , WNT Signaling
1759	2629	NM_012603	z, ee, ff, kk	Pathway, p38 MAPK Signaling Pathway
. !	}			Erk1/Erk2 Mapk Signaling pathway, Nerve growth factor pathway (NGF),
				Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1761	1298	NM_012610	d	pathway, ngf
1				Erk1/Erk2 Mapk Signaling pathway, Nerve growth factor pathway (NGF),
ŀ	ł			Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1761			cc, dd	pathway, ngf
1911	24676	NM_017010	aa, bb	Erythropoietin mediated neuroprotection through NF-kB
				Erythropoietin mediated neuroprotection through NF-kB, Hypoxia and p53 in
- 1				the Cardiovascular system, Hypoxia-Inducible Factor in the Cardiovascular
2188	1146	NM_024359	y, z	System
				1.7.1.1.1.1

TABLE	2			Atty. Ref. 44921-5090-01-WO/210548
		GenBank Acc	1	
	GLGC ID		Model Code	Pathways
2004		NM_017332	e, gg	Fatty acid biosynthesis (path 1)
431		AA893242	II .	Fatty acid metabolism
431	20986	AA893242	11	Fatty acid metabolism
070	2000			
972		A1044900	a, h, l, ee, ff, kl	Fatty acid metabolism
1652 1668		D00729	g, hh	Fatty acid metabolism
1999		D90109	<u>                                     </u>	Fatty acid metabolism
2410		NM_017306 NM_053623	hh	Fatty acid metabolism
1896	20856	NM_013200	j, k, y, z	Fatty acid metabolism
1030	20000	14141_013200	a, w, x, hh a, w, x, aa, hh,	Fatty acid metabolism, Glycerolipid metabolism
1896	20856	NM_013200	a, w, x, aa, 1111,	Eathy and match allows Object to the first
1030	20000	14W_013200	<del> </del>	Fatty acid metabolism, Glycerolipid metabolism
1827	1977	NM_012930	a, w, x, cc, dd	Fatty acid metabolism, Glycerolipid metabolism, Mitochondrial Carnitine
1708		M14972	s, t	Palmitoyltransferase (CPT) System Fatty acid metabolism, Tryptophan metabolism
1743		NM_012541	aa, bb	Fatty acid metabolism, Tryptophan metabolism
1831		NM_012940	j, k	Fatty acid metabolism, Tryptophan metabolism
1832		NM_012941	l, m	Fatty acid metabolism, Tryptophan metabolism
1909		NM_016999	s, t	Fatty acid metabolism, Tryptophan metabolism
2030		NM_019184	c	Fatty acid metabolism, Tryptophan metabolism
2281		NM_031543	u, v	Fatty acid metabolism, Tryptophan metabolism
2281		NM_031543	v	Fatty acid metabolism, Tryptophan metabolism
				Fc Epsilon Receptor I Signaling in Mast Cells, Glycerolipid metabolism,
			a, j, k, y, z, ee,	Phospholipid degradation, Prostaglandin and leukotriene metabolism, p38
2528	244	NM_133551	ff, kk	MAPK Signaling Pathway
				Flavonoids, stilbene and lignin biosynthesis, Methane metabolism,
2398		NM_053576	а	Phenylalanine metabolism
1718		M36410	ee, ff, gg	Folate biosynthesis
2109		NM_022390		Folate biosynthesis
2187		NM_024356	a, y, z	Folate biosynthesis
2187		NM_024356	j, k, y, z, ii	Folate biosynthesis
1858	14997	NM_013059	e, ee, ff	Folate biosynthesis, Glycerolipid metabolism
				Folate biosynthesis, Nicotinate and nicotinamide metabolism, Purine
1971		NM_017220	ee, ff	metabolism, Pyrimidine metabolism
1922				Free Radical Induced Apoptosis
1922		NM_017050		Free Radical Induced Apoptosis
2202	1852	NM_030826	aa, gg	Free Radical Induced Apoptosis, Glutathione metabolism
1050	04075		d, e, j, k, n, o,	
1956				Free Radical Induced Apoptosis, Purine metabolism
1923 2060		10.0.0.0.0.0		Fructose and mannose metabolism
2000	1238	NM_019333	99	Fructose and mannose metabolism
1	İ			
1733	15544	NM 012400	<u></u>	Fructose and mannose metabolism, Galactose metabolism, Glycerolipid
1133	11001	VM_012498	ii	metabolism, Pentose and glucuronate interconversions, Pyruvate metabolism
1701	12059	_25387		Fructose and mannose metabolism, Galactose metabolism, Glycolysis /
	12000	-2001	W	Gluconeogenesis, Pentose phosphate pathway
1701	25377	25387		Fructose and mannose metabolism, Galactose metabolism, Glycolysis /
- ::-	20011	-2001		Gluconeogenesis, Pentose phosphate pathway
2320	1340	NM_031715		Fructose and mannose metabolism, Galactose metabolism, Glycolysis /
2693	19694			Gluconeogenesis, Pentose phosphate pathway Generation of amyloid b-peptide by PS1
1998				Glutamate metabolism, Glutathione metabolism
1929				Glutamate metabolism, Glutamione metabolism Glutamate metabolism, Nitrogen metabolism
1929				Glutamate metabolism, Nitrogen metabolism Glutamate metabolism, Nitrogen metabolism
938		1043695	,,	Glutamate metabolism, Purine metabolism
			<u> </u>	Ciatemate inclasionsin, Funite inclasionsin

TABLE 2	2 4	,¥,		Atty. Ref. 44921-5090-01-WO/210548
		GenBank Acc	1	
	GLGC ID		Model Code	Pathways
658		AA957007	g	Glutathione metabolism
1799		NM_012796	g	Glutathione metabolism
1912		NM_017014	b	Glutathione metabolism
1958		NM_017165	hh	Glutathione metabolism
2131		NM_022525	cc, dd	Glutathione metabolism
2265		NM_031154	w, x	Glutathione metabolism
2274		NM_031509	b, r	Glutathione metabolism
2274		NM_031509	d, r	Glutathione metabolism
2274 2639		NM_031509	d, r	Glutathione metabolism
2669		X02904 X62660	ii .	Glutathione metabolism
1885		NM_013161	c, f, g b, i, m	Glutathione metabolism
1989		NM_017274		Glycerolipid metabolism Glycerolipid metabolism
2380		NM_053437	gg e, hh	Glycerolipid metabolism
2260		NM_031143	d, e, ii, kk	Glycerolipid metabolism, Phosphatidylinositol signaling system
2200	1000	11111_001140	u, c, ii, kk	Glycerolipid metabolism, Phospholipid degradation, Prostaglandin and
1962	9378	NM_017174	jj, kk	leukotriene metabolism
1758		NM_012598	w, x	Glycerolipid metabolism, Visceral Fat Deposits and the Metabolic Syndrome
1758		NM_012598	w, x	Glycerolipid metabolism, Visceral Fat Deposits and the Metabolic Syndrome
1844		NM_013003	ii	Glycine, serine and threonine metabolism
1894		NM_013197	b, c, v	Glycine, serine and threonine metabolism
2003	24533	NM_017328	n, o	Glycolysis / Gluconeogenesis
				Glycolysis / Gluconeogenesis, Histidine metabolism, Phenylalanine
2343	24644	NM_031972	cc, dd	metabolism, Tyrosine metabolism
				Glycosaminoglycan degradation, Porphyrin and chlorophyll metabolism,
1913	17815	NM_017015	w, x	Starch and sucrose metabolism
1			a, h, l, z, aa,	
2073		NM_019905	kk, II	Glyoxylate and dicarboxylate metabolism
1726		M81855	d	Hypoxia and p53 in the Cardiovascular system
1754		NM_012588	bb	Hypoxia and p53 in the Cardiovascular system
2309		NM_031677	d, jj, kk	Hypoxia and p53 in the Cardiovascular system
2409	20243	NM_053615	aa, bb	Hypoxia and p53 in the Cardiovascular system, WNT Signaling Pathway
2516	657	NINE 422200		IL 4 signaling pathway, Selective expression of chemokine receptors during T
1914		NM_133380 NM_017020	j, k, y, z	cell polarization, Th1/Th2 Differentiation, il4
2172		NM_017020 NM_024125	j, k	IL 6 signaling pathway, il6, interact6-1
2112	21230	NIVI_024125	p, q p, q, r, bb, ee,	IL 6 signaling pathway, il6, interact6-1
2172	21239	NM_024125		III. 6 signaling nathway il6 interact6 1
1939		NM_017101	s, t	IL 6 signaling pathway, it6, interact6-1 IL-2 Receptor B Protein Interaction Pathway
	7001	011 101		Inactivation of Gsk3 by AKT causes accumulation of b-catenin in Alveolar
1749	482	NM_012567	s, t	Macrophages
778		A1008988	y, z	Inhibition of Cellular Proliferation by Gleevec, Integrin Signaling Pathway
2092		NM_021989	h, l, n, o, ll	Inhibition of Matrix Metalloproteinases
229		AA858903	s, t, gg	Inhibition of Matrix Metalloproteinases, p53 Signaling Pathway
512		AA924107	ii	Inhibition of Matrix Metalloproteinases, p53 Signaling Pathway
697		AA965161	ll .	Inhibition of Matrix Metalloproteinases, p53 Signaling Pathway
1891		NM_013187	a, kk	Inositol phosphate metabolism, Phosphatidylinositol signaling system
2186		NM_024353	h, I	Inositol phosphate metabolism, Phosphatidylinositol signaling system
2352	1171	NM_032071	y, z	Inositol phosphate metabolism, Phosphatidylinositol signaling system
				Inositol phosphate metabolism, Phosphatidylinositol signaling system,
260		AA859981	ee, ff, jj, kk	Streptomycin biosynthesis
2024		NM_019152	cc, dd	Integrin Signaling Pathway
2620		U26310	99	Integrin Signaling Pathway
1983		NM_017255	aa, bb	Ion Channel and Phorbal Esters Signaling Pathway
1738	15741	NM_012520	0	Methane metabolism, Tryptophan metabolism

TABLE:	2			Atty. Ref. 44921-5090-01-WO/2105485
des :	a. a =' :=	GenBank Acc.	1	
	GLGC ID		Model Code	Pathways
1967	20779	NM_017201	b, I, m	Methionine metabolism, Selenoamino acid metabolism
			a, d, z, ee, ff, jj,	, , , , , , , , , , , , , , , , , , , ,
2277	20448	NM_031530	kk	Signaling in Macrophage
				Msp/Ron Receptor Signaling Pathway, Pertussis toxin-insensitive CCR5
2277		NM_031530	a, z, ee, ff, kk	Signaling in Macrophage
1318		AI176170	e	mTOR Signaling Pathway
1945		NM_017130	u, v	N-Glycan degradation, Sphingoglycolipid metabolism
2314		NM_031698	W, X	N-Glycans biosynthesis
1874 2056		NM_013127 NM_019291	e, bb	Nicotinate and nicotinamide metabolism
2030	13030	NIVI_019291	b, c	Nitrogen metabolism
2267	18506	NM_031325		Nucleotide sugars metabolism, Pentose and glucuronate interconversions, Starch and sucrose metabolism
2201	10000	NW_001020	u, v a, j, k, p, q, y,	Nucleotide sugars metabolism, Pentose and glucuronate interconversions,
2267	18597	NM_031325	z, ee, ff	Starch and sucrose metabolism
	,0001		2,00,11	Overview of telomerase RNA component gene hTerc Transcriptional
299	4339	AA875121	ljj, kk	Regulation
			m	Overview of telomerase RNA component gene hTerc Transcriptional
1810	4338	NM_012866	u, v	Regulation
1138		Al104520	hh	Oxidative phosphorylation
1712	15049	M24542	aa, bb	Oxidative phosphorylation
1795	449	NM_012786	hh	Oxidative phosphorylation
1795	450	NM_012786	f, hh	Oxidative phosphorylation
1968		NM_017202	aa	Oxidative phosphorylation
2383		NM_053472	u, v	Oxidative phosphorylation
2041	20938	NM_019223	hh	Oxidative phosphorylation, Ubiquinone biosynthesis
2107		NM_022381		p53 Signaling Pathway
2107	11455	NM_022381	s	p53 Signaling Pathway
405	00000	4.4000004		Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine
495	23038	AA900881		biosynthesis, Valine, leucine and isoleucine degradation
2117	24642	NM 022400	1	Pantothenate and CoA biosynthesis, Valine, leucine and isoleucine
2117 269		NM_022400 AA866302	b, u, v	biosynthesis, Valine, leucine and isoleucine degradation
1468		AI230798	C	Phenylalanine metabolism, Tyrosine metabolism
1767			d, jj, kk	Phosphatidylinositol signaling system
1767		NM_012637	p, q, y, z	Phosphatidylinositol signaling system Phosphatidylinositol signaling system
2021		NM_012037	р, ц, у, z aa	Phosphatidylinositol signaling system  Phosphatidylinositol signaling system
1906				Phospholipase C d1 in phospholipid associated cell signaling
		0.,000,		Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1746	23868	NM_012551		pathway
				Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1746	23869	NM_012551	a, h, l, ρ, q, y, z	
	1			Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1746	23871	NM_012551		pathway
				Phosphorylation of MEK1 by cdk5/p35 down regulates the MAP kinase
1746	23872	NM_012551		pathway
-			a, p, q, r, y, z,	
1402		Al179610		Porphyrin and chlorophyll metabolism
1741		NM_012532		Porphyrin and chlorophyll metabolism
1751	16080	NM_012580	p, q, y, z, kk	Porphyrin and chlorophyll metabolism
2022	400-0	V00050		
2688				Porphyrin and chlorophyll metabolism
1976				Prostaglandin and leukotriene metabolism
2029				Prostaglandin and leukotriene metabolism
2029	17004	NM_019170	f, g	Prostaglandin and leukotriene metabolism

TABLE 2	2	` `	··	Atty. Ref. 44921-5090-01-WO/2105485
	•	GenBank Acc.		
SEQ ID	GLGC ID	No.	Model Code	Pathways
2029	17066	NM_019170	9	Prostaglandin and leukotriene metabolism
2213	25517	NM_031010	c, v	Prostaglandin and leukotriene metabolism
2213	1845	NM_031010	c, v	Prostaglandin and leukotriene metabolism
2285	692	NM_031557	s, t, ll	Prostaglandin and leukotriene metabolism
190	18673	AA849028	t	Proteasome
1662	9029	D30804	hh	Proteasome
1777	4003	NM_012708	е	Proteasome
1991		NM_017278	i, m	Proteasome
1992	15538	NM_017283	(r	Proteasome
				PTEN dependent cell cycle arrest and apoptosis, Phosphatidylinositol
} }				signaling system, Regulation of elF4e and p70 S6 Kinase, mTOR Signaling
2297	11296	NM_031606	f	Pathway
63		AA799729	j, k	Purine metabolism
1450	23042	AI230130	s, t, ii	Purine metabolism
1762		NM_012613	aa, bb	Purine metabolism
1816		NM_012895	u, v	Purine metabolism
1916	14247	NM_017031	h, !	Purine metabolism
2053	8200	NM_019285	11	Purine metabolism
2229	79	NM_031079	y, z, ee, ff	Purine metabolism
2325		NM_031776	kk	Purine metabolism
2325		NM_031776	kk	Purine metabolism
2299		NM_031614	r, y, z, jj, kk	Pyrimidine metabolism
2299		NM_031614	y, z, kk	Pyrimidine metabolism
2404		NM_053592	h, l	Pyrimidine metabolism
2351		NM_032067	gg	Rac 1 cell motility signaling pathway, Ras Signaling Pathway
2351	21809	NM_032067	11	Rac 1 cell motility signaling pathway, Ras Signaling Pathway
		<u> </u>		Ras Signaling Pathway, Role of PI3K subunit p85 in regulation of Actin
1423		AI227887	e, aa, bb	Organization and Cell Migration, p38 MAPK Signaling Pathway
630		AA946432	b, I, m	Regulation of ck1/cdk5 by type 1 glutamate receptors
2075		NM_020075	p, q, s, t	Regulation of eIF2
2075		NM_020075	ee, ff	Regulation of eIF2
2208		NM_030872	s, t	Regulation of eIF4e and p70 S6 Kinase
2208		NM_030872	hh	Regulation of eIF4e and p70 S6 Kinase
1206	23152	Al169170	r	Regulation of elF4e and p70 S6 Kinase, mTOR Signaling Pathway
				Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, mTOR
1957	17104	NM_017160	h, l	Signaling Pathway
	İ			Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, mTOR
1957	17105	NM_017160	h, I	Signaling Pathway
1			1	Skeletal muscle hypertrophy is regulated via AKT/mTOR pathway, mTOR
1957		NM_017160	n, o	Signaling Pathway
1933		NM_017087	n, o	Small Leucine-rich Proteoglycan (SLRP) molecules
2691		Z12298	aa, bb	Small Leucine-rich Proteoglycan (SLRP) molecules
1236		AI170663	cc, dd	SREBP and controls lipid synthesis
92		AA800190	a, e, ii, kk	Starch and sucrose metabolism
1232		AI170502	ļr	Starch and sucrose metabolism
2595		NM_153821	h, i	Starch and sucrose metabolism
1948		NM_017136	\ii	Sterol biosynthesis, Terpenoid biosynthesis
2251		NM_031127	a, h, l, n, o	Sulfur metabolism
2336		NM_031834	s, t, aa, bb	Sulfur metabolism
2336		NM_031834	t, bb	Sulfur metabolism
1806		NM_012844	c, d	Tetrachloroethene degradation
2162		NM_022936	aa	Tetrachloroethene degradation
2162		NM_022936	w, x, aa, bb	Tetrachloroethene degradation
2033		NM_019191	19	TGF beta signaling pathway, tgf-beta
2286	18315	NM_031561	e, u	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell

TABLE	2			Atty. Ref. 44921-5090-01-WO/2105485
		GenBank Acc.		
SEQ ID	GLGC ID	No.	Model Code	Pathways
2286		NM_031561	е	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
2286			r, aa, bb, ii	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
2286			w, x	TSP-1 Induced Apoptosis in Microvascular Endothelial Cell
1740		NM_012531	f, g	Tyrosine metabolism
1740	11116	NM_012531	f, g	Tyrosine metabolism
889	21950	AI013861	a, h, l	Valine, leucine and isoleucine degradation
1688	17285	J02827	С	Valine, leucine and isoleucine degradation
1756		NM_012592	С	Valine, leucine and isoleucine degradation
2577	13712	NM_144744	ü	Visceral Fat Deposits and the Metabolic Syndrome
2035			n, o	WNT Signaling Pathway
2035	18573	NM_019201	f, g	WNT Signaling Pathway

TABLE 3				1966年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	Attv. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			
Ω	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2486		15408 NM_057197	lf, g, l, m	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
2486		15409 NM_057197	f, g	2,4-dienoyl CoA reductase 1, mitochondrial	2,4-dienoyl CoA reductase 1, mitochondrial
				3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1, 3-	
_				hydroxy-3-methylglutaryl-Coenzyme A synthase 1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), 3-hydroxy-3-
1987		20600 NM_017268	:==	(soluble)	methylglutaryl-Coenzyme A synthase 2, pre B-cell leukemia transcription factor 1
		-		3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1, 3-	
				hydroxy-3-methylglutaryl-Coenzyme A synthase 1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble), 3-hydroxy-3-
1987	20601	20601 NM_017268	_	(soluble)	methylglutaryl-Coenzyme A synthase 2, pre B-cell leukemia transcription factor 1
•				4-hydroxyphenylpyruvate dioxygenase, 4-	
269		17742 AA866302	C	hydroxyphenylpyruvic acid dioxygenase	4-hydroxyphenylpyruvate dioxygenase, 4-hydroxyphenylpyruvic acid dioxygenase
1753		NM_012585	p, u, v	5-hydroxytryptamine (serotonin) receptor 1A	5-hydroxytryptamine (serotonin) receptor 1A
1878		NM_013148	n, o	5-hydroxytryptamine (serotonin) receptor 5A	
2189		767 NM_024365	b, c	5-hydroxytryptamine (serotonin) receptor 6	5-hydroxytryptamine (serotonin) receptor 6
					6-pyruvoyl-tetrahydropterin synthase, 6-pyruvoyltetrahydropterin synthase, ESTs,
					Weakly similar to JC1405 6-pyruvoyltetrahydropterin synthase [H.sapiens], ESTs,
				6-pyruvoyl-tetrahydropterin synthase, 6-	Weakly similar to PTPS RAT 6-PYRUVOYL TETRAHYDROBIOPTERIN
1971	1527	1527 NM_017220	ee, ff	pyruvoyltetrahydropterin synthase	SYNTHASE PRECURSOR [R.norvegicus]
				6-pyruvoyl-tetrahydropterin synthase/dimerization	
1727	21882	21882 M83740	l, m	cofactor of hepatocyte nuclear factor 1 alpha (TCF1)	
					ESTs, Moderately similar to PC4265 disintegrin and metalloproteinase 10
					[H.sapiens], Homo sapiens cDNA FLJ13398 fis, clone PLACE1001377, highly
_					similar to Homo sapiens ADAM10 (ADAM10) mRNA, RIKEN cDNA 1700031C13
				a disintegrin and metalloprotease domain 10, a	gene, a disintegrin and metalloprotease domain 10, a disintegrin and
2693	19694   248444	248444	pp '50	disintegrin and metalloproteinase domain 10	metalloproteinase domain 10

TABLE	3			43	Atty. Ref. 44921-5090-01-WO/2105485
SEQ ID GL	G 25	GenBank Acc. No.	Model Code	Model Code Human Hömologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTS, Flighly Similar to ATSG_WICHSE AUAIN-TS O PTRECURSOR (A DISHVIEGENIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 8) (ADAMTS-8) (ADAM-TS8) (METH-2) [M.musculus], ESTS, Weakly similar to ATS1_MOUSE
					ADAM-TS 1 PRECURSOR (A DISINTEGRIN AND METALLOPROTEINASE WITH THROMBOSPONDIN MOTIFS 1) (ADAMTS-1) (ADAM-TS1) [M.musculus], ESTs,
					Weakly similar to T47158 hypothetical protein DKFZp762C1110.1 [H.sapiens], Mus   musculus Similar to a disinteorin and metalloproteinase with thrombospondin motifs
	_				1 (ADAMTS-1), clone IMAGE.3491991, mRNA, partial cds, Mus musculus, Similar
					to a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type
					1 mottf, 4, clone MGC:38401 IMAGE:5345809, mKNA, complete cds, a disintegrin- like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 1, a
				a disintegrin-like and metalloprotease (reprolysin type)	disintegrin-like and metalloprotease (reprofysin type) with thrombospondin type 1
2196	22626 N	22626 NM_024400	춫	with thrombospondin type 1 motif, 1	motif, 8
					A kinase (PRKA) anchor protein (gravin) 12, ESTs, Highly similar to gravin
24/5	19638	19658 NM_U3/103	66	A Kinase (PRKA) anchor protein (gravin) 12	[In.sapiens] A kinges (IDDVA) anakar protein (aranja) 12 ECTe. Highly similar to granin
2630	2153 U	2153 U75404	n. v	A kinase (PRKA) anchor protein (gravin) 12	A minase (1 1/10-y) and of protein (glavin) 12, EC 13, 11,811 Smina 10 gravin (H. Sapiens)
					Homo sapiens, Similar to acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl
					Coenzyme A thiolase), clone MGC:13582 IMAGE:4278329, mRNA, complete cds,
					Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone
				nzyme A acetyltransferase 1, acetyl-	MGC:39087 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A
				A acetyltransferase 1 (acetoacetyl Coenzyme	acetyltransferase 1 (acetoacetyl Coenzyme A thiolase), acetyl-Coenzyme A
1930	18956 N	18956 NM_017075	aa	A thiolase)	acytransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
			-		Homo sapiens, Similar to acetyl-Coenzyme A acetylitransterase 1 (acetoacetyl Coenzyme A thiolase) clone MGC:13582 IMAGE:4278329, mRNA, complete cds.
					Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone
				acetyl-Coenzyme A acetyltransferase 1, acetyl-	MGC:39067 IMAGE:5365469, mRNA, complete cds, acetyl-Coenzyme A
	-		_	zyme	
1930		18957 NM_017075	r, s, t, II	A thiolase)	acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
					Mus musculus, Similar to Acetyl-Co A acetyltransferase 1, mitochondrial, clone McC:30067 IMAGE:5365460 mBNA complete cds acetyl-Congruene A
				٥	acyltransferase (neroxisomal 3-oxoacyl-Coenzyme A thiolase) acetyl-Coenzyme A
1732		23698 NM 012489			acytransferase 1 (peroxisomal 3-oxoacyl-Coenzyme A thiolase)
	1				

TABLE 3	8			(	1
SEQ ID	CIC ID	GenBank Acc. No.	Model Code	Human H	ous Sequence Cluster Title
2037		18569 NM_019212	f, w, x, hh	actin, alpha 1, skeletal muscle	BRG1/brm-associated factor 53A, Rat messenger RNA for alpha-actin, actin, alpha 1, skeletal muscle, actin-like 6, expressed sequence AA959943
275		16001 AA866452	bb, cc, dd	actin, alpha, cardiac, actin, alpha, cardiac muscle	ESTs, Weakly similar to ACTA_HUMAN Actin, aortic smooth muscle (Alpha-actin 2) [R.norvegicus], Homo sapiens, clone MGC:33407 IMAGE:4824606, mRNA, complete cds, actin, alpha 2, smooth muscle, aorta, smooth muscle alpha-actin
2212		21166 NM_031005	a, n, o	actinin, atpha 1	ESTs, Weakly similar to alpha actinin 4 [Mus musculus] [M.musculus], RIKEN cDNA 3110023F10 gene, actinin alpha 2, actinin alpha 3, actinin, alpha 1, actinin, alpha 2, actinin, alpha 3, alpha actinin 4
2307	5358	5358 NM_031675	<b>L</b>	actinin, alpha 4, alpha actinin 4	ESTs, Weakly similar to alpha actinin 4 [Mus musculus] [M.musculus], RIKEN cDNA 3110023F10 gene, actinin, alpha 4, alpha actinin 4
1821	24431	24431 NM_012912	a, p, q, y, z, ee, ff	activating transcription factor 3	ESTs, Weakly similar to A39382 liver regeneration factor LRF1 - rat [R.norvegicus], ESTs, Weakly similar to A54025 transcription factor ATF3 [H.sapiens], activating transcription factor 3
1864	20242	20242 NM_013084	<u> </u>	acyl-Coenzyme A dehydrogenase, short/branched chain	acyl-Coenzyme A dehydrogenase, short/branched chain
903	17957	17957 AI028975	s, t	adaptor protein complex AP-1, beta 1 subunit, adaptor- related protein complex 1, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit
1990	17959	17959 NM_017277	s, t	adaptor protein complex AP-1, beta 1 subunit, adaptor- related protein complex 1, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 1, beta 1 subunit
2495	17958	17958 NM_080583	66	adaptor-related protein complex 2, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 2, beta 1 subunit
2495	179601	17960 NM_080583	_	adaptor-related protein complex 2, beta 1 subunit	adaptor protein complex AP-1, beta 1 subunit, adaptor-related protein complex 2, beta 1 subunit
2366	1596	1596 NM_053294	_	adenosine A2a receptor	adenosine A2a receptor, adenosine A3 receptor
1816	16708	16708 NM_012895	n, ۷	adenosine kinase	adenosine kinase, expressed sequence AI987814
2053	8200	8200 NM_019285	==	adenylate cyclase 4	ESTs, Moderately similar to A41542 adenylate cyclase (EC 4.6.1.1) IV - rat [R.norvegicus], adenylate cyclase 2 (brain), adenylate cyclase 4
				adenylate cyclase activating polypeptide 1 (pituitary) receptor type I, adenylate cyclase activating polypeptide	ESTs, Weakly similar to PACR MOUSE PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE TYPE I RECEPTOR PRECURSOR [M.musculus], adenylate cyclase activating polypeptide 1 (pituitary) receptor type I, adenylate
2521	24775	24775 NM_133511	ပ		cyclase activating polypeptide 1 receptor 1
1905	1	17972 NM_016989	ш 1	adenylate cyclase activating polypeptide 1, adenylate cyclase activating polypeptide 1 (pituitary)	adenylate cyclase activating polypeptide 1, adenylate cyclase activating polypeptide 1 (pituitary)

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 		Gan Bank Acc		Selection .	Atty. Ket. 44921-5090-01-WO/2105485
	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTS, Highly similar to 1917/150A collagen:SUBUNIT=alpha1:ISOTYPE=VIII [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to CA18 MOUSE COLLAGEN ALPHA 1(VIII) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to ACR3
					MOUSE 30 KD ADIPOCYTE COMPLEMENT-RELATED PROTEIN PRECURSOR
					[M.musculus], Mus musculus, Similar to DKFZP586B0621 protein, clone
					INIGE. 30033 INFAGE: 33.337 68, INFANA, COMPINERE COS, KIKEN CUNA 353.0401 NZU Appe adinose most abundant gene transmirt 1 pollogos transmirt 1
2577	137121	13712 NM_144744	:==	adipose most abundant gene transcript 1	gene, aurose audinant gene transcript 1, collagen, type Vill, alpha 1, procollagen, type Vill, alpha 1
1728	37621	3762 M86341	s, t	ADP-ribosylarginine hydrolase	ADP-ribosylarginine hydrolase, ESTs, Weakly similar to ADP-RIBOSYLARGININE HYDROLASE [M.musculus]
					ADP-ribosylation factor 4-like, ADP-ribosylation factor-like 7, ADP-ribosylation-like 4,
					ESTs, Weakly similar to ADP-ribosylation-like 4 [Mus musculus] [M.musculus], Mus
					musculus, Similar to ADP-ribosylation-like 4, clone MGC:5774 IMAGE:3599701,
-				:	mRNA, complete cds, RIKEN cDNA 1110036H21 gene, epithelial protein lost in
2032	24019	24019 NM_019186	, K	ADP-ribosylation factor-like 4, ADP-ribosylation-like 4	neoplasm beta
					ESTs, Weakly similar to GRK6 MOUSE G PROTEIN-COUPLED RECEPTOR
735	3505.4	3505 0.0008430	>	garenergic receptor kinase, beta 1, adrenergic, beta,	KINASE GRK6 [M.musculus], G protein-coupled receptor kinase 6, adrenergic
3	3	004000	W, A	receptor Kiliase	receptor kinase, beta 1, adrenergic, beta, receptor kinase 1
				adrenergic receptor, alpha 1b, adrenergic, alpha-1B-,	
9081	40	64 NM_U16991	J, K	receptor	
1778	3221	322 NM_012715	d, gg	adrenomedullin	adrenomedullin
	<u> </u>				ESTs, Weakly similar to A38096 perlecan precursor [H.sapiens], ESTs, Weakly
					similar to AGRT agrin - rat [R.norvegicus], ESTs, Weakly similar to BASEMENT
					MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN
					PRECURSOR [M.musculus], ESTs, Weakly similar to PGBM_HUMAN BASEMENT
					MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN
					PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:3494258, mRNA, partial
					cds, heparan sulfate proteoglycan 2 (pertecan), pertecan (heparan sulfate
1705	40749	004797		-	proteoglycan 2), serine protease inhibitor, Kazal type, 5, sialoadhesin,
153	10/43	M047 00	l', ]], KK	agrin	transmembrane protein with EGF-like and two follistatin-like domains 1

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SEO		GenBank Acc.			Atty. Ref. 44921-5090-01-WO/2105485
<u></u>	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
			•		ESTs, Weakly similar to A38096 perlecan precursor [H.sapiens], ESTs, Weakly similar to AGRT agrin - rat [R.norvegicus], ESTs, Weakly similar to BASEMENT
					MEMIBRANE-SPECIFIC REPARAN SULPATE PROTEORYCAN CORE PROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to PGBM_HUMAN BASEMENT
					MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECI IRSOP IN Savians! Miss missells along MAGE 2000 15
_					on the configuration of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the se
1725		10744 M64780	<u> </u>	agrii	proteoglycan 2), serine protease inhibitor, Kazal type, 5, siatoadhesin,
2082		23424 NM_021680	j, k	alanyi-tRNA synthetase	alany-tRNA synthetase
				aldehyde dehydrogenase 1 family, member A1, aldehyde	Mus musculus, Similar to aldehyde dehydrogenase 8 family, member A1, clone dehydrogenase 1 family, member A1, clone lMAGE:4234742, mRNA, partial cds, aldehyde dehydrogenase 1 family, memher
2118	- 1	20915 NM_022407	爻	dehydrogenase family 1, subfamily A1	A1, aldehyde dehydrogenase family 1, subfamily A1
					ESTS, Moderately similar to DHAM_RAT ALDEHYDE DEHYDROGENASE,
	•				MI OCHONDRIAL PRECURSOR (ALDH CLASS 2) (ALDH1) (ALDH-E2)
				aldehyde dehydrogenase 2 family (mitochondrial),	ir kino vograzija nivera ozna za rodova roz gene, arenjone denjonogenase i ramily, member B1, aldehyde dehydrogenase 2 family (mitochondrial), aldehyde
2353	122991	12299 NM_032416	ပ		dehydrogenase 2, mitochondrial
					Mus musculus, Similar to aldehyde dehydrogenase 4 family, member A1, clone
					IMAGE:5102023, mRNA, partial cds, RIKEN cDNA 1110038105 gene, aldehyde
119	11901/4	11901 AA801058	<b>ס</b>	aldenyde denydrogenase 9 family, member A1, aldenyde   dehydrodenase 9, subfamily A1	denydrogenase 9 ramily, member A1, aldenyde   dehydrogenase 4 family, member A1, aldehyde dehydrogenase 9 family, member enase 9. subfamily A1
					EST, Weakly similar to A39763 aldehyde reductase [H.sapiens], ESTs, Moderately
					similar to ALDR_RAT Aldose reductase (AR) (Aldehyde reductase) [R.norvegicus],
					ESTs, Weakly similar to ALDR_RAT Aldose reductase (AR) (Aldehyde reductase)
					R.norvegicus), Rattus norvegicus mRNA for aldose reductase-like protein, aldo-
1733	15511	15511 NM_012498	:=	reductase), aldo-keto reductase family 1, member B3 (aldose reductase)	Keto reductase family 1, member B1 (aldose reductase), aldo-keto reductase family 1, member B3 (aldose reductase)
	_				alpha-methylacyl-CoA racemase, cDNA sequence AF397014, chromosome 7 open
1802	150321	15032 NM_012816	j, k, jj, Kk		reading frame 10
2039	20791	2079 NM_019220	၁	amino-terminal enhancer of split	amino-terminal enhancer of split

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		ConBank Age		O CARLINGTON O	Ally, Ref. 44921-3030-01-470/2103463
	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					Mus musculus, Similar to amyloid beta (A4) precursor protein-binding, family B, member 3, clone MGC:38710 IMAGE:5357681, mRNA, complete cds, amyloid beta
					(A4) precursor protein-binding, family B, member 1, amyloid beta (A4) precursor
2663		25711 X60468	s, t	member 1, amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)	protein-binding, family B, member 1 (Fe65), amyloid beta (A4) precursor protein- binding, family B, member 2
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ESTs, Highly similar to A31759 peptidyl-dipeptidase A [H.sapiens], RIKEN cDNA
1745		225 NM 012544	dd ee	angiotensin I converting enzyme (peptidyl-dipeptidase A)	angiotensin i converting enzyme (peptidyl-dipeptidase A)   2010305L05 gene, angiotensin i converting enzyme (peptidyl-dipeptidase A) 1,   Andiotensin converting enzyme
1818		7196 NM 012904		lannexin A1	annexin A1
1366		15315 AI177911		annexin A2	annexin A2 annexin A9
	İ				EST, Moderately similar to 0806162C protein COLIM musculus. EST. Moderately
					similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to
	•				0806162C protein COI [M.musculus], ESTs, Highly similar to hydroxyacid oxidase 3
	•				(medium-chain) [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to
					0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C
	•				cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI
			a, h, I, z, aa,	a, h, l, z, aa, annexin A2, hydroxyacid oxidase (glycolate oxidase) 3,	[M.musculus], annexin A2, annexin A9, hydroxyacid oxidase (glycolate oxidase) 3,
2073		574 NM_019905	kk, II	hydroxyacid oxidase 3 (medium-chain)	hydroxyacid oxidase 1, liver
	_				ESTs, Moderately similar to ANX4 MOUSE ANNEXIN IV [M.musculus], ESTs,
					Weakly similar to ZAP 36/annexin IV [Rattus norvegicus] [R.norvegicus], Mus
					musculus, Similar to annexin A8, clone MGC:13875 IMAGE:4013266, mRNA,
1228	۳	8440 AI235611	q	annexin A4	complete cds, annexin A13, annexin A4, annexin A8
2181	261	561 NM_024156	·····································	annexin A6	annexin A6
2181	295	562 NM_024156	_	annexin A6	annexin A6
					ESTs, Moderately similar to AOP2 MOUSE ANTIOXIDANT PROTEIN 2
				anti-oxidant protein 2 (non-selenium glutathione	[M.musculus], ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT
				peroxidase, acidic calcium-independent phospholipase	PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione
2398	- 1	19252 NM_053576	а	A2), peroxiredoxin 5	peroxidase, acidic calcium-independent phospholipase A2), peroxiredoxin 5
				aortic preferentially expressed gene 1, nuclear protein,	
				marker for differentiated aortic smooth muscle and down-	marker for differentiated aortic smooth muscle and down- aortic preferentially expressed gene 1, nuclear protein, marker for differentiated
1819		1834 NM_012905	q	regulated with vascular injury	aortic smooth muscle and down-regulated with vascular injury
				APEX nuclease (multifunctional DNA repair enzyme),	APEX nuclease (multifunctional DNA repair enzyme), Mus musculus ape2 mRNA
2177		20801 NM_024148	d, s, t	apurinic/apyrimidinic endonuclease	for AP endonuclease 2, complete cds, apurinic/apyrimidinic endonuclease

TABLE 3	3		4	A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY AND A	SE AND OF MON PORT AND PER MON ON MICHAELE
SEO		GenBank Acc			14 17 18 18 18 18 18 18 18 18 18 18 18 18 18
<u>.</u>	ID GLGC ID No.	No.	Model Code	Model Code Human Hömologous Known Gene Name	Human Hömologous Sequence Cluster Title
2552		16400 NM_138828	cc, dd	apolipoprotein E	apolipoprotein E
				aquaporin 1, aquaporin 1 (channel-forming integral	
1793		5758 NM_012778	p, q, s, t	protein, 28kD)	aquaporin 1, aquaporin 1 (channel-forming integral protein, 28kD)
1794		104 NM_012779	:=	aquaporin 5	aquaporin 5, aquaporin 6
				arachidonate 5-lipoxygenase activating protein,	arachidonate 5-lipoxygenase activating protein, arachidonate 5-lipoxygenase-
1986		7593 NM_017260	w, x	arachidonate 5-lipoxygenase-activating protein	activating protein
				arachidonate 5-lipoxygenase activating protein,	arachidonate 5-lipoxygenase activating protein, arachidonate 5-lipoxygenase-
1986		7594 NM_017260	w, x, ii	arachidonate 5-lipoxygenase-activating protein	activating protein
				arginine vasopressin, arginine vasopressin (neurophysin	
				II, antidiuretic hormone, diabetes insipidus,	arginine Vasobressin, arginine Vasobressin (neurophysin II antiduretic hormone
1907		24868 NM_016992	0,"	neurohypophyseal)	diabetes insipidus, neurohypophyseal)
				arginine vasopressin, arginine vasopressin (neurophysin	
				II, antidiuretic hormone, diabetes insipidus.	arginine vasopressin, arginine vasopressin (neurophysin II aptidiuratic hormone
1907		24869 NM_016992	0, "	neurohypophyseal)	diabetes insibildus, neurohvoophyseal)
					ARP3 actin-related protein 3 homolog (yeast), EST, Weakly similar to
					ARP3_HUMAN ACTIN-LIKE PROTEIN 3 [H.sapiens], EST, Weakly similar to ATRT
					actin, skeletal muscle - rat [R.norvegicus], ESTs, Moderately similar to
					ARP3_HUMAN ACTIN-LIKE PROTEIN 3 [H.sapiens], ESTs, Weakly similar to
					ATHU actin alpha 1, skeletal muscle [H.sapiens], Homo sapiens cDNA FLJ14201
				iolog (yeast), actin-	fis, clone NT2RP3002955, actin-related protein 3-beta, hypothetical protein
1464	ł	23013 AI230743	ŀĥ		FLJ12785, mitochondrial ribosomal protein L47
					ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c (subunit 9),
				-	isoform 1, ESTs, Highly similar to AT91_HUMAN ATP SYNTHASE LIPID-BINDING
				ndrial F0	PROTEIN P1 PRECURSOR [H.sapiens], Homo sapiens cDNA: FLJ23586 fls, clone
2000 7000	ı	16844 NM_017311	o'u		LNG14376
_				ATP synthase, H+ transporting, mitochondrial F1	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit, RIKEN
2566		17203 NM_139099	g, hh		cDNA 2410043G19 gene, expressed sequence AV000645
				orting, mitochondrial F1	ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit, RIKEN
5266		17204 NM_139099	6	complex, epsilon subunit	cDNA 2410043G19 gene, expressed sequence AV000645
1994	12347	12347 NM 017290	=	ATPase Ca++ transporting cardiac muscle slow twitch 2	
1994		12349 NM_017290	aa	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2	

TABLE	;;				× , ×
SEO .		GenBank Acc			Alty, Ref. 44921-5090-01-WO/2105485
Ω	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous, Sequence Cluster Title
1731		17991/M96526	5 5 8	ATPace (244 transnorting plane)	ATPase, Ca++ transporting, plasma membrane 2, ATPase, Class V, type 10C, ATPase, class V, type 10A, ESTs, Highly similar to A34308 Ca2+-transporting ATPase [R.norvegicus], ESTs, Weakly similar to I49143 gastric H(+)-K(+)-ATPase alpha subunit - mouse [M.musculus], RIKEN cDNA 1110019114 gene, RIKEN cDNA
1822		24783 NM_012914	1 1	Ca++ transporting, ubiquitous	Zo1044zizz gene ATPase, Ca++ transporting, ubiquitous
1734	583	583 NM_012505	h, 1	+) polypeptide,	ATPase, Na+/K+ transporting, alpha 2 (+) polypeptide, ATPase, Na+/K+ transporting, alpha 2 polypeptide, ATPase, Na+/K+ transporting, alpha 4 polypeptide, ESTs, Highly similar to A1A4_HUMAN Sodium/potassium-transporting ATPase alpha-4 chain (Sodium pump 4) (Na+/K+ ATPase 4) [H.sapiens], expressed sequence AW060654
				ember	ATP-binding cassette, sub-family B (MDR/TAP), member 1, ATP-binding cassette, sub-family B (MDR/TAP), member 1A, ATP-binding cassette, sub-family B (MDR/TAP), member 1B, EST, Highly similar to MDR3 MOUSE MULTIDRUG RESISTANCE PROTEIN 3 [M.musculus], EST, Weakly similar to MULTIDRUG RESISTANCE PROTEIN 3 [M.musculus], ESTs. Weakly similar to MDR1 MOLSE
1726	5733	5733 M81855	ď	1, ATP-binding cassette, sub-family B (MDR/TAP), member 1B	MULTIDRUG RESISTANCE PROTEIN 1 [M.musculus], Mus musculus, clone IMAGE:3588242, mRNA, partial cds
2656	1037.)	1037 X57523	g g	ATP-binding cassette, sub-family B (MDR/TAP), member / 2, transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	ATP-binding cassette, sub-family B (MDR/TAP), member ATP-binding cassette, sub-family B (MDR/TAP), member 2, ESTs, Highly similar to 2, transporter 1, ATP-binding cassette, sub-family B (MDR/TAP), member 2, ESTs, Highly similar to S13426 multidrug resistance protein homolog - rat [R.norvegicus], transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
1853	733	733 NM_013040	j, k	ATP-binding cassette, sub-family C (CFTR/MRP), o	ATP-binding cassette, sub-family C (CFTR/MRP), member 9, ESTs, Weakly similar to T42751 sulfonylurea receptor 2 - rat [R.norvagicus], Homo sapiens cDNA FLJ31957 fis, clone NT2RP7007381, highly similar to Sulfonylurea receptor 2A, Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330439B14.ATP-binding cassette, sub-family C (CFTR/MRP), member 9, full insert sequence
728	3511	3511 _A A998152	ee, ff	BAI1-associated protein 2, brain-specific angiogenesis Rinhibitor 1-associated protein 2	BAI1-associated protein 2, ESTs, Weakly similar to brain-specific angiogenesis inhibitor 1-associated protein 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0429 gene product, clone IMAGE:2811240, mRNA, partial cds, RIKEN cDNA 1300006M19 gene, brain-specific angiogenesis inhibitor 1-associated protein 2, hypothetical protein FLJ22582, insulin receptor tyrosine kinase substrate

TABLE 3	3		<i>/</i> *.	では、一般などのでは、一般などのでは、一般などのでは、一般などのでは、一般などのでは、これをは、これをは、これをは、これをは、これをは、これをは、これをは、これを	SELECTION OF LAND DOLLAROOF FOOD OF WOMEN
SFO		GenBank Acc			Ally:: Tel: 1955-1-5050-1-5050-1-5050-1-5070-1-1-05485
۵	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				basic helix-loop-helix domain containing, class B, 2, basic	basic helix-loop-helix domain containing, class B, 2, basic containing, class B, 2, basic helix-loop-helix domain class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic loop-helix domain containing, class B, 2, basic helix-loop-helix domain containing, class B, 2, basic loop-helix domain containing, class B, 3, basic helix-loop-helix domain containing, class B, 2, basic loop-helix domain containing, class B, 3, basic loop-helix-loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 3, basic loop-helix domain containing, class B, 4, basic loop-helix domain containing, class B, 4, basic loop-helix domain containing, class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix domain class B, 4, basic loop-helix do
2370		1063 NM_053328	Ð	helix-loop-helix domain containing, class B2	loop-helix domain containing, class B3
				x-loop-helix domain containing, class	B, 3, basic basic helix-loop-helix domain containing, class B, 2, basic helix-loop-helix domain
2514	İ	1061 NM_133303	p, d, hh	helix-loop-helix domain containing, class B3	containing, class B2, basic helix-loop-helix domain containing, class B3
					B-cell translocation gene 1, anti-proliferative, Homo sapiens cDNA FLJ30547 fis,
1984		19 NM_017258	p, q	B-cell translocation gene 1, anti-proliferative	cione BRAVVHZUU1439, transducer of ERBB2, 1, transducer of ERBB2, 2, transducer of ErbB-2.1
					B-cell translocation gene 2, anti-proliferative, B-cell translocation gene 4, BTG
1985		15300 NM_017259	p, q. kř	B-cell translocation gene 2, anti-proliferative, BTG family, member 2	family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN PRECURSOR [H.saniens]
					B-cell translocation gene 2, anti-proliferative. B-cell translocation gene 4. BTG
			j, k, p, q, y,	B-cell franslocation gene 2, anti-proliferative, BTG family,	nslocation gene 2, anti-proliferative, BTG family, family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN
8	1	15307 NM ND551	z, gg	member 2	PRECURSOR (H.sapiens)
					B-cell translocation gene 2, anti-proliferative, B-cell translocation gene 4, BTG
1985		MM 017259	>	B-cell translocation gene 2, anti-proliferative, BTG family, 1 member 2	B-cell translocation gene 2, anti-proliferative, BTG family, family, member 2, ESTs, Highly similar to BTG2_HUMAN BTG2 PROTEIN
1924	1	910 NM 017059	0	sociated X protein Bcl2-associated X protein	
1001	1	JA 017050	, -	DOLO COCCUENT V antoin Data coccuent V protein	
+70	-	60710_WIN	J.	DCLZ-associated A protein, bciz-associated A protein	
1924		912 NM_017059	d, l, m	BCL2-associated X protein, Bcl2-associated X protein	
1043		4704E NIM 04204E	;		ESTs, Highly similar to A26581 beta-glucuronidase [H.sapiens], SMA3, beta-
2 2	-1	CIO/IO MIN	w, x	peta-glucuronidase, glucuronidase, beta	glucuronidase structural, glucuronidase, beta
					ESTs, Highly similar to asporin (LRR class 1); periodontal ligament associated
					protein 1 [Homo sapiens] [H.sapiens], ESTs, Weakly similar to PGS1_RAT
- 000,					Bone/cartilage proteoglycan I precursor (Biglycan) (PG-S1) [R.norvegicus], asporin,
1933		22552 NM_017087	n, o		biglycan
1306				otrophic factor, brain-derived	brain derived neurotrophic factor, brain-derived neurotrophic factor, expressed
S :		1/45 NM_U12513	- d	nic factor	sequence Al462899
495	23038/	23038 AA900881	a, j, k, y, z	branched chain aminotransferase 1, cytosolic	branched chain aminotransferase 1, cytosolic
				•	Homo sapiens cDNA FLJ13847 fis, clone THYRO1000852, highly similar to Human
2117		24643 NM_022400	b, u, v	tranched chain aminotransferase 2. mitochondrial	branched-chain amino acid aminotransferase (ECA40) mRNA, branched chain aminotransferase 2 mitochondrial

TABLE 3	3.			のである。 「神経のである」 「神経のである」 「神経のである」 「神経のである」 「神経のである」	3 AM D C 44034 E000 E000 PM D C 4400 E000 D4 WC004 E000 PM PM D C 4400 PM
SEO		GenBank Acc.			**************************************
<u>Ω</u> ,	GLGC ID No.	No-	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1688	`	17285 102827	೨	branched chain keto acid dehydrogenase E1, alpha polypeptide (maple syrup urine disease), branched chain ketoacid dehydrogenase E1, alpha polypeptide	
					ESTs, Highly similar to breakpoint cluster region, isoform 1 [Homo sapiens] [H.sapiens], ESTs, Highly similar to chimerin (chimaerin) 1 [Rattus norvegious] [R.norvegious], ESTs, Weakly similar to SH3-BINDING PROTEIN 3BP-1
778		3278 A1008988	y, z	breakpoint cluster region	[Im.musculus], RIKEN cDNA 1700112L09 gene, RIKEN cDNA 2310069104 gene, RIKEN cDNA 5133400C09 gene, RIKEN cDNA 5730403H17 gene, SH3-domain binding protein 1, breakpoint cluster region, chimerin (chimaerin) 1
2347		18499 NM_031984	aa, bb	calbindin 1, (28kD), calbindin-28K	Mus musculus, Similar to secretagogin, clone MGC:27615 IMAGE:4504330, mRNA, complete cds, calbindin 1, (28kD), calbindin-28K
2347		18500 NM_031984	pp	calbindin 1, (28kD), calbindin-28K	Mus musculus, Similar to secretagogin, clone MGC:27615 IMAGE:4504330, mRNA, complete cds, calbindin 1, (28kD), calbindin-28K
1780		1632 NM_012717	n, v	calcitonin receptor-like	calcitonin receptor-like
					ESTS, Highly Similar to CICZ RAT DIHYDROPYRIDINE-SENSITIVE L-17PE, CALCIUM CHANNEL ALPHA-2/DELTA SUBUNITS PRECURSOR (R.norvegicus), ESTs, Moderately similar to CIC2 RAT DIHYDROPYRIDINE-SENSITIVE L-TYPE,
					CALCIUM CHANNEL ALPHA-2/DELTA SUBUNITS PRECURSOR [R.norvegicus], Rattus norvegicus L-fype calcium channel alpha2/delta subunit mRNA, complete
1824	1765	1765 NM_012919	, v	calcium channel, voltage-dependent, alpha 2/delta subunit 1, calcium channel, voltage-dependent, alpha2/delta subunit 1	cds, calcium channel, voltage-dependent, alpha 2/delta subunit 1, calcium channel, voltage-dependent, alpha 2/delta subunit 2, calcium channel, voltage-dependent, alpha2/delta subunit 1
2442	1011	1011 NM_053851	(D)	calcium channel, voltage-dependent, beta 2 subunit	ESTs, Weakly similar to 2111412A Ca channel:SUBUNIT=beta [M.musculus], calclum channel, voltage-dependent, beta 2 subunit, expressed sequence AW060387
2340	19190	19190 NM_031969	– 'ų		RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence Al327027, expressed sequence AL024000, troponin C, fast skeletal
2340	19191	19191 NM_031969	- - -	F k calmodulin 1 (phosphorylase kinase, delta)	RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin 3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence Al 227027, expressed sequence AL 024000, troponin C, fast skeletal

TABLE 3	3		1	で、 一、一、一般では、中の一般では、 一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一、一	高級 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
SEQ		GenBank Acc.			
<u>_</u>	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
		!			RIKEN cDNA 2310068022 gene, calmodulin 1, calmodulin 1 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin
2,00		00000	=		
2340		19195 NN_031969	n, l, ll	calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	
					RIKEN cDNA 2310068022 gene, calmodulin 1, calmodulin 1 (phosphorylase
			1		Kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin
0770		090700 7410	n, 1, aa, oo,		3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence
7407		20002 WW_031909		calmodulin 1, calmodulin 1 (phosphorylase kinase, delta)	-
					RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase
					kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin
					3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence
287		15476 AA944426	ı, r	calmodulin 3, calmodulin 3 (phosphorylase kinase, delta)	Al327027, expressed sequence AL024000, troponin C, fast skeletal
					RIKEN cDNA 2310068O22 gene, calmodulin 1, calmodulin 1 (phosphorylase
					kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta), calmodulin
					3, calmodulin-like 3, centrin 1, centrin, EF-hand protein, 1, expressed sequence
1/36	- 1	20518 NM_012518	n, o, r	calmodulin 3, calmodulin 3 (phosphorylase kinase, delta)	3, calmodulin 3 (phosphorylase kinase, delta)  Al327027, expressed sequence AL024000, troponin C, fast skeletal
168	6963	6963 L18889	Ф	calnexin	
					ESTs, Weakly similar to CAN1_MOUSE CALPAIN 1, LARGE [CATALYTIC]
					SUBUNIT (CALCIUM-ACTIVATED NEUTRAL PROTEINASE) (CANP) (MU-TYPE)
2024	20863	20863 NM_019152	cc, dd	calpain 1, calpain 1, (mu/l) large subunit	[M.musculus], calpain 1, calpain 11, small optic lobes homolog (Drosophila)
8		1			ESTs, Moderately similar to ICAL_HUMAN CALPAIN INHIBITOR [H.sapiens],
967	1190,	1190 AA875089	Чų	calpastatin	calpastatin
					ESTs, Moderately similar to CALPONIN H1, SMOOTH MUSCLE [M.musculus],
2064	23491	23491 NM_019359	<u>.</u>	calponin 3, acidic	calponin 1, calponin 2, calponin 3, acidic
					ESTs, Highly similar to CAQS MOUSE CALSEQUESTRIN, SKELETAL MUSCLE
					ISOFORM PRECURSOR [M.musculus], ESTs, Moderately similar to CAQC_RAT
					CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR (R.norvegicus),
1					calsequestrin 1, calsequestrin 1 (fast-twitch, skeletal muscle), calsequestrin 2,
530	168/	168 AA924985	в	calsequestrin 2, calsequestrin 2 (cardiac muscle)	calsequestrin 2 (cardiac muscle)

TABLE 3	3		、一年の記録をはいるという。	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	できょう の記録を表現し、これのののできるAftv、Pof. A4021-5000.01.MOJ94の5485
SEO		GenBank Acc			2+001 7/0/AA-1 0-0000-1 70++ 10V /AIV
Ō	GLGC ID No.	No	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to CAQS MOUSE CALSEQUESTRIN, SKELETAL MUSCLE ISOFORM PRECIESOR IM miscrifits I SAT
					CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR IR.norvegicus].
					calsequestrin 1, calsequestrin 1 (fast-twitch, skeletal muscle), calsequestrin 2,
1946		167 NM_017131	b, e, u, v, II	calsequestrin 2, calsequestrin 2 (cardiac muscle)	calsequestrin 2 (cardiac muscle)
					EST, Weakly similar to CRMS2 carbonate dehydratase [M.musculus], ESTs,
					Weakly similar to CAH2_RAT Carbonic anhydrase II (Carbonate dehydratase II)
					(CA-II) [R.norvegicus], carbonic anhydrase 2, carbonic anhydrase I, carbonic
2056		15056 NM_019291	p'c	carbonic anhydrase 2, carbonic anhydrase II	anhydrase II, carbonic anhydrase VIII, carbonic anhydrase-like sequence 1
					ESTs, Weakly similar to S52349 carbonyl reductase (NADPH) (EC 1.1.1.184) - rat
					[R.norvegicus], RIKEN cDNA 1110001J05 gene, RIKEN cDNA A930033N07 gene,
2029		17063 NM_019170	f, g	carbonyl reductase 1	carbonyl reductase 1, carbonyl reductase 3
					ESTs, Weakly similar to S52349 carbonyl reductase (NADPH) (EC 1.1.1.184) - rat
					(R.norvegicus), RIKEN cDNA 1110001J05 gene, RIKEN cDNA A930033N07 gene,
2029		17064 NM_019170	f, g	carbonyl reductase 1	carbonyl reductase 1, carbonyl reductase 3
					ESTs, Weakly similar to S52349 carbonyl reductase (NADPH) (EC 1.1.1.184) - rat
					[R.norvegicus], RIKEN cDNA 1110001J05 gene, RIKEN cDNA A930033N07 gene,
2029		17066 NM_019170	6	carbonyl reductase 1	carbonyl reductase 1, carbonyl reductase 3
					ESTs, Weakly similar to A41010 carboxylesterase [H.sapiens], Mus musculus,
					Similar to carboxylesterase 2 (intestine, liver), clone MGC:18908 IMAGE:4241028,
					mRNA, complete cds, Mus musculus, clone MGC:18894 IMAGE:4239756, mRNA,
					complete cds, RIKEN cDNA 2310039D24 gene, T-complex expressed gene 5,
					carboxylesterase 1, carboxylesterase 1 (monocyte/macrophage serine esterase 1),
					carboxylesterase 3, carboxylesterase 3 (brain), carboxylesterase-related protein,
2512	- 1	20879 NM_133295	£	carboxylesterase 3, carboxylesterase 3 (brain)	esterase 22
					EST, Weakly similar to MAST CELL CARBOXYPEPTIDASE A PRECURSOR
					[M.musculus], RIKEN cDNA 1110019K20 gene, RIKEN cDNA 4930430M09 gene,
					carboxypeptidase A1 (pancreatic), carboxypeptidase A3, mast cell,
1908	- 1	24354 NM_016998	O	carboxypeptidase A1, carboxypeptidase A1 (pancreatic)	carboxypeptidase B1 (tissue)
1875		21840 NM_013128	w, II	carboxypeptidase E	
2350		20554 NM_031987	b, I, m, aa, cc, dd	carnitine O-octanoyltransferase	carnitine O-octanovitransferase
2350		20555 NM_031987		carnitine O-octanoyltransferase	carnitine O-octanovitransferase
	l				

TABLE 3	3			The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	-0,450
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Ω	GLGC ID No.	No.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1896		20855 NM_013200	a, w, x, hh	carnitine palmitoyltransferase 1, muscle, carnitine palmitoyltransferase I, muscle	Carnifine nalmitovltransferase 1 muscle carnitine nalmitovutransferase 1
			a, w, x, aa,	carnitine palmitoyltransferase 1, muscle, carnitine	de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita del comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del l
1896		20856 NM_013200	hh, II		carnitine palmitovitransferase 1. muscle, carnitine palmitovitransferase 1. muscle
			a, w, x, cc,	carnitine palmitoyltransferase 2, carnitine	יי וומסחום איני איני מייני איני איני איני איני אינ
1827		1977 NM_012930	gg	palmitoyltransferase II	carnitine palmitoyltransferase 2, carnitine palmitoyltransferase II
					ESTs, Weakly similar to casein kinase [M.musculus], RIKEN cDNA 2610208K14
2409		20243 NM_053615	aa, bb	casein kinase 1, alpha 1	gene, RIKEN cDNA 3300002K07 gene, casein kinase 1, alpha 1, casein kinase 1, delta
					ESTS. Moderately similar to KC1D HIJMAN CASEIN KINASE I DELTA ISDEDEM
					H.sapiens), ESTs. Weakly similar to casein kinase IM misculus RIKEN CDNA
					2610208K14 gene, RIKEN cDNA 3300002K07 gene, casein kinase 1 alnha 1
930		22771 AA946432	b, I, m	casein kinase 1, delta	casein kinase 1, delta
1738	- 1	15741 NM_012520	11	catalase, catalase 1	catalase, catalase 1
1740	1	NM_012531	f, g	catechol-O-methyltransferase	RIKEN cDNA 6330414C15 nene catechol-O-methyltransfarase
1740	1	11116 NM_012531		catechol-O-methyltransferase	RIKEN cDNA 6330414C15 gene, catechol-O-methyltransferase
1937	21501	2150 NM_017097	a, II	cathepsin C	RIKEN cDNA 4921537117 gene, cathebsin C
1882	3430	3430 NM 013156	c m t kk cathensin	cathonsin I	ESTs, Weakly similar to CATL MOUSE CATHEPSIN L PRECURSOR [M.musculus],
		201010	1111 t) III	ממווסף פוון ד	KINEIN CUINA 4930486LZ4 gene, cathepsin L, expressed sequence AA408230
					ESTs, Weakly similar to CATL MOUSE CATHEPSIN L PRECURSOR IM musculus
1882	3431	3431 NM_013156	ر, چ		RIKEN cDNA 4930486L24 gene, cathepsin L, expressed sequence AA408230
7000	1 30230	022760 1814 20220		caveolin 1, caveolae protein, 22kD, caveolin, caveolae	
4077	100/07	000100 MIN		protein, ZZ KDa	caveolin 1, caveolae protein, 22kD, caveolin, caveolae protein, 22 kDa
7,1/7	212381	21Z38 NM_024125	Ī	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
2172	21239	21239 NM_024125	p, q, r, bb, ee, ff, kk	CCAAT/enhancer binding protein (C/EBP). beta	CCAAT/enhancer hinding protein (C/EBD) hete
1880	21682 N	21682 NM_013154	<u> </u>	CCAAT/enhancer binding protein (C/EBP), delta	CCAAT/anhancer binding protein (C/EBP), dolts
			ō		
188	21683	21683 NM_013154	$\neg$	CCAAT/enhancer binding protein (C/EBP), delta	CCAAT/enhancer binding protein (C/EBP), delta

TABLE 3	رب ا	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* Agent	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	SOND COMMEND OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O
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Ω	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				CD36 antigen (collagen type I receptor, thrombospondin	CD36 antigen (collagen type I receptor, thrombospondin recentor)-like 1 scavenger
2280		16049 NM_031541	n, o		receptor class B1
				CD36 antigen, CD36 antigen (collagen type I receptor,	
2286	- 1	18315 NM_031561	e, u		CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
				gen (collagen type I receptor,	
2286	Į	18316 NM_031561	ə		CD36 antigen, CD36 antigen (collagen type I recentor, thrombospondin recentor)
2286		18317 NM_031561	r, aa, bb, ii		CD36 antigen, CD36 antigen (collagen type I receptor, thrombospondin receptor)
				gen (collagen type I receptor,	
2286	_	18319 NM_031561	w, x		CD36 antigen, CD36 antigen (collagen type   receptor, thrombospondin receptor)
1874		2005 NM_013127	e, bb		CD38 antigen, CD38 antigen (p45)
				CD44 antigen, CD44 antigen (homing function and Indian	
1826		1625 NM_012924	66	blood group system)	
				CD59 antigen p18-20 (antigen identified by monoclonal	
				antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a	
386	2832,	2832 AA892388	b, u, v	antigen	
					CD63 antigen (melanoma 1 antigen), Cd63 antigen, EST, Weakly similar to CD63
					MOUSE CD63 ANTIGEN [M.musculus], ESTs, Weakly similar to CD63_RAT CD63
					antigen (AD1 antigen) [R.norvegicus], Mus musculus, clone MGC:36554
					IMAGE:4954874, mRNA, complete cds, RIKEN cDNA 1300010A20 gene,
					expressed sequence C75951, expressed sequence C80071, transmembrane 4
25	1435	1435 NM_01 / 125	춫	CD63 antigen (melanoma 1 antigen), Cd63 antigen	superfamily member 2
3				CDC3/ cell division cycle 37 homolog (S. cerevisiae), cell (	cell division cycle 37 homolog (S. cerevisiae), cell CDC37 cell division cycle 37 homolog (S. cerevisiae), cell division cycle 37 homolog
2424	105101	10510 NM 053743	u, v	division cycle 37 homolog (S. cerevisiae)	(S. cerevisiae), cell division cycle 37 homolog (S. cerevisiae)-like
					ESTs, Highly similar to A41222 ubiquitinprotein ligase [H.sapiens], ESTs, Weakly—similar to HBC2, UHMANHIDIO HTM CONTRICATING ENTAGE FOLDS
					Manuscript Diving Control objects and the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o
					[w.iiiusculus], Kiren cDina Zo10301NUZ gene, cell division cycle 34, expressed
73	13683	13683 AA799788	α	S Self division ovole 34	Sequence At32/2/6, ubiquitin-conjugating enzyme E2B, RAD6 homology (S.
?					cerevisiae), ພນ່ິງພາແາ-conjugating enzyme E2C

TABLE 3				があります。 タイ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	STANDOLDA MODAL FOOD, STOOD AND STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE STOOD OF THE
OEA OEA		Conbont Acc			OF0012/OV9-10-0000-126FF 1971-(NC)
)       	GLGC ID No.	Genbank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to A41222 ubiquitinprotein ligase [H.sapiens], ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD
					[M.musculus], RIKEN cDNA 2610301N02 gene, cell division cycle 34, expressed
1702	13682	13682 138482	o o	cell division cycle 34	sequerice Arisz/z/o, ubiquitin-conjugaring enzyme Ezb, หรบง nomology (s.  cerevisiae). ubiquitin-conjugating enzyme E2C
					RIKEN cDNA 4930544G11 gene, RIKEN cDNA 5830400A04 gene, cell division
	_			cell division cycle 42 (GTP binding protein, 25kD), cell	cycle 42 (GTP binding protein, 25kD), plysia ras-related homolog A2, ras homolog 9
1423	22845,	22845 AI227887	e, aa, bb	division cycle 42 homolog (S. cerevisiae)	(RhoC), ras homolog A2, ras homolog gene family, member C
					DNA segment, Chr 3, ERATO Doi 555, expressed, EST, Highly similar to
		_			FAS_HUMAN COAGULATION FACTOR VIII PRECURSOR [H.sapiens], ESTs,
	-	_			Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR [M.musculus],
		_			ESTs, Weakly similar to CERU_RAT CERULOPLASMIN PRECURSOR
·		_			(FERROXIDASE) [R.norvegicus], ESTs, Weakly similar to KUHU ferroxidase
!		- !			[H.sapiens], ceruloplasmin, ceruloplasmin (ferroxidase), coagulation factor VIII,
1741	165201	16520 NM_012532	O	ceruloplasmin, ceruloplasmin (ferroxidase)	procoagulant component (hemophilia A)
2321	190481	19048 NM_031719	ji, Kr	chloride channel, nucleotide-sensitive, 1A	chloride channel, nucleotide-sensitive, 1A
					EST, Highly similar to CTRO HUMAN CITRON PROTEIN (Hisapiens). ESTs. Highly
	<u></u>				similar to CTRO HUMAN CITRON PROTFIN IH saniens I KIAA0451 oene nroduct
2329	1182	1182 NM_031790	b, l, m	citron, citron (rho-interacting, serine/threonine kinase 21)	Nef-associated factor 1, citron, citron (rho-interacting, serine/threonine kinase 21)
					H.sapiens clathrin light chain a gene, clathrin, light polypeptide (Lca), clathrin, light
2344	17075	17075 NM_031974	66	clathrin, light polypeptide (Lca)	polypeptide (Lcb), expressed sequence AV026556
					ESTs, Weakly similar to CLD7_RAT CLAUDIN-7 [R.norvegicus], Mus musculus
216	13627 /	13627 AA851493	aa, bb	claudin 7	claudin 19 mRNA, complete cds, claudin 10, claudin 15, claudin 7
	•				cofilin 1 (non-muscle), cofilin 1, non-muscle, cofilin 2 (muscle), cofilin 2, muscle,
1952	15364	15364 NM_017147	:=	cofilin 1 (non-muscle), cofilin 1, non-muscle	expressed sequence AW987265
					cofilin 1 (non-muscle), cofilin 1, non-muscle, cofilin 2 (muscle), cofilin 2, muscle,
1952	15365	15365 NM_017147	aa, bb, II	cofilin 1 (non-muscle), cofilin 1, non-muscle	expressed sequence AW987265
					Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched
-					library, clone: 2610205119:Y box protein 1, full insert sequence, Mus musculus Y-box
1659	16610 D28557		c, f, u, v	cold shock domain protein A	binding protein (oxyR) mRNA, partial cds, cold shock domain protein A

Human Hömologous Sequence Cluster Tite EST, Weakly Similar to CA11_HUMAN CC PRECURSOR [H. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST Weakly Similar to CA11_HUMAN con (Goodpasture antigen), expressed sequen 1, procollagen, type IV, alpha 1, put EST, Weakly Similar to CA11_HUMAN, con (Goodpasture antigen), expressed sequen 1, procollagen, type IV, alpha 1, put EST, Weakly Si COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST WECURSOR [M. musculus], EST Weakly Si COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST WECURSOR [M. musculus], EST WECURSOR [M. musculus], EST WECURSOR [M. musculus], EST WECURSOR [M. musculus], EST WECURSOR [M. musculus], EST WECURSOR [M. musculus], EST COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. musculus], EST SCOLLAGEN ALPHA 1(1) CHAIN PRECURSOR [M. mus	TABL	E3				SALE OF THE PROPERTY OF THE PROPERTY OF THE ANOTHER THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER
GC ID No.       Model Code Human Homologous Known Gene Name         15572 AI231472       f, g       collagen, type I, alpha 1, procollagen, type I, alpha 1         15571 M27207       g       collagen, type I, alpha 1, procollagen, type I, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha 1, alpha	SEO		GenBank Acc.			
f, g collagen, type I, alpha 1, procollagen, type I, alpha 1  g collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1	۵	GLGC ID	No.	Model Code		Human Homologous Sequence Cluster Title.
collagen, type I, alpha 1, procollagen, type I, alpha 1  g collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1	·					ES1, Weakiy similar to CA11_HUMAN CULLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR IM musculus], ESTs. Weakly similar to CA11, H1MAN
collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						COLLAGEN ALPHA 1(I) CHAIN PRECURSOR (H.sapiens), ESTs, Weakly similar to
f, g collagen, type I, alpha 1, procollagen, type I, alpha 1 g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], F-box only
f, g collagen, type I, alpha 1, procollagen, type I, alpha 1 g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						protein 29, Mus musculus, Similar to RIKEN cDNA 1700051112 gene, clone
f, g collagen, type I, alpha 1, procollagen, type I, alpha 1  g collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						INICC:28/41 IMAGE:4481590, mRNA, complete cds, collagen, type IV, alpha 3
f, g collagen, type I, alpha 1, procollagen, type I, alpha 1  g collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						(Goodpasture antigen), expressed sequence AW742721, procollagen, type I, alpha
collagen, type I, alpha 1, procollagen, type I, alpha 1  g collagen, type I, alpha 1, procollagen, type I, alpha 1  c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 4, procollagen, type IV,
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1	148	1			collagen, type I, alpha 1, procollagen, type I, alpha 1	alpha 5, procollagen, type VI, alpha 1, putative emu1
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						ESI, Weakly similar to CA11_HUMAIN COLLAGEN ALPHA 1(1) CHAIN
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c. g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						PRECURSOR [H.sapiens], EST, Weakly similar to PROCOLLAGEN ALPHA 1(I)
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to CA11_HUMAN
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1	_					COLLAGEN ALPHA 1(1) CHAIN PRECURSOR [H.sapiens], ESTs, Weakly similar to
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], F-box only
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1			•			protein 29, Mus musculus, Similar to RIKEN cDNA 1700051112 gene, clone
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						MGC:28741 IMAGE:4481590, mRNA, complete cds, collagen, type IV, alpha 3
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						(Goodpasture antigen), expressed sequence AW742721, procollagen, type I, alpha
g collagen, type I, alpha 1, procollagen, type I, alpha 1 c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 4, procollagen, type IV,
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1	1713		M27207		collagen, type I, alpha 1, procollagen, type I, alpha 1	alpha 5, procollagen, type VI, alpha 1, putative emu1
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						EST, Weakly Similar to CATT_HOWAN COLLAGEN ALPHA 1(1) CHAIN
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1			-			PRECURSOR [H.sapiens], EST, Weakly similar to PROCOLLAGEN ALPHA 1(I)
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to CA11_HUMAN
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						COLLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], ESTs, Weakly similar to
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], F-box only
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						protein 29, Mus musculus, Similar to RIKEN cDNA 1700051112 gene, clone
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						MGC:28741 IMAGE:4481590, mRNA, complete cds, collagen, type IV, alpha 3
c, g, bb collagen, type I, alpha 1, procollagen, type I, alpha 1						(Goodpasture antigen), expressed sequence AW742721, procollagen, type I, alpha
c, g, bb   collagen, type I, alpha 1, procollagen, type I, alpha 1	-					1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 4, procollagen, type IV,
	7696	15569			collagen, type I, alpha 1, procollagen, type I, alpha 1	alpha 5, procollagen, type VI, alpha 1, putative emu1

TABLE 3	8	· 《 議 · 、 · · · · · · · · · · · · · · · · ·	1、 方の数数のです。	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	TO THE TAXABLE TO THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY
SEO		GenBank Acc.			349
Ω	GLGC ID No.	No.	Model Code Human	e Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2696		15570 278279	c, f, g, j, k	collagen, type I, alpha 1, procollagen, type I, alpha 1	EST, Weakly Similar to CATT_HUMAN CULLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to CATT_HUMAN COLLAGEN ALPHA 1(I) CHAIN PRECURSOR [H.sapiens], ESTs, Weakly similar to PROCOLLAGEN ALPHA 1(I) CHAIN PRECURSOR [M.musculus], F-box only protein 29, Mus musculus, Similar to RIKEN cDNA 1700051112 gene, clone MGC:28741 IMAGE:4481590, mRNA, complete cds, collagen, type IV, alpha 3 (Goodpasture antigen), expressed sequence AW742721, procollagen, type I, alpha 1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 2, procollagen, type IV, alpha 1, putative emu1
~	9153	6153 AA875531		chale Lour namellong Calabo	
233	6158	6158 AA859284	, , , , , , , , , , , , , , , , , , ,	collagen, type I, alpha 2, procellagen, type I, alpha 2	
2376	6154 N	6154 NM_053356	آ-ر ق	collagen, type I, alpha 2, procollagen, type I, alpha 2	
2376	61551	6155 NM_053356	5	collagen, type I, alpha 2, procollagen, type I, alpha 2	
2376	6156	6156 NM_053356	5	collagen, type I, alpha 2, procollagen, type I, alpha 2	
2376	6157	6157 NM_053356	D)	collagen, type I, alpha 2, procollagen, type I, alpha 2	F-box only protein 29, Mus musculus, clone IMAGE:5323568, mRNA, partial cds, collagen, type VI, alpha 3, procollagen, type I, alpha 2, prostate tumor over expressed gene 1, retinoblastoma binding protein 1

TABLE 3	6	***		The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
SEO		GenBank Acc			Ally Ker 448Z1-509U-01-WO/Z105485
Ω	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologod's Sequence Cluster Title
1711	16427 M21354		تـب	EST, Highly sir PRECURSOR ALPHA 1(III) C MOUSE COLL Weakly similar [H.sapiens], ES CHAIN PRECU alpha 1(III) chaphatase 1 cds, RIKEN cD collagen, type III, alpha 1 (Ehlers-Danios syndrome type 6, 68kD subuni IV, autosomal dominant), procollagen, type III, alpha 1 syndrome type	EST, Highly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Moderately similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to CA13 MOUSE COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [M.musculus], EST, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [M.musculus], EST, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to S41067 collagen alpha 1(III) chain - rat [R.norvegicus], Mus musculus, Similar to putative protein phosphatase 1 nuclear targeting subunit, clone IMAGE:3157989, mRNA, partial cds, RIKEN cDNA 2010011D20 gene, cleavage and polyadenylation specific factor 6, 68kD subunit, collagen type V, alpha 2, collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), procollagen, type III, alpha 1
	16426 X70369		ე მ ზ	EST, Highly sin PRECURSOR ALPHA 1(III) CI MOUSE COLL Weakly similar [H.sapiens], ES CHAIN PRECU alpha 1(III) chai phosphatase 1 cds, RIKEN cDi collagen, type III, alpha 1 (Ehlers-Danlos syndrome type 6, 68kD subunit IV, autosomal dominant), procollagen, type III, alpha 1 syndrome type 5, 8kD subunit syndrome type 11, alpha 1 syndrome type 5, 8kD subunit syndrome type 11, alpha 1 syndrome type	EST, Highly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Moderately similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], EST, Weakly similar to CA13 MOUSE COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [M.musculus], EST, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens], ESTs, Weakly similar to CA13 MOUSE COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [M.musculus], ESTs, Weakly similar to putative protein alpha 1(III) chain - rat [R.norvegicus], Mus musculus, Similar to putative protein phosphatase 1 nuclear targeting subunit, clone IMAGE:3157989, mRNA, partial cds, RIKEN cDNA 2010011D20 gene, cleavage and polyadenylation specific factor 6, 68KD subunit, collagen type V, alpha 2, collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), procollagen, type III, alpha 1
251	2262 A	2262 AA859757	뇬		EST, Weakly similar to CGHU1V collagen alpha 1(V) chain precursor [H:sapiens], Homo sapiens cDNA FLJ30442 fis, clone BRACE2009212, Homo sapiens prolinerich acidic protein mRNA, complete cds, Mus musculus, clone IMAGE:3490511, mRNA, partial cds, collagen, type V, alpha 1, collagen, type XI, alpha 1, endoplasmic reticulum chaperone SIL1, homolog of yeast, hypothetical protein MGC2705, procollagen, type V, alpha 1, procollagen, type V, alpha 3, procollagen, type XI, alpha 1

TABLE 3	<b>س</b>	THE TANK	下 二年本 等級 医二甲二十二		BOX BOX PO ODOST POOR MISTOR WAY TO ME TO ME ME ME ME ME ME ME ME ME ME ME ME ME
SEO	,	GenBank Acc			· · · · · · · · · · · · · · · · · · ·
≘	GLGC ID No.	No.	Model Code Human P	el Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2544		25237 NM_134452	<u> </u>	collagen, type V, alpha 1, procollagen, type V, alpha 1	EST, Weakly similar to CGHU1V collagen alpha 1(V) chain precursor [H.sapiens], Homo sapiens cDNA FLJ30442 fis, clone BRACE2009212, Homo sapiens prolinerich acidic protein mRNA, complete cds, Mus musculus, clone IMAGE:3490511, mRNA, partial cds, collagen, type V, alpha 1, collagen, type XI, alpha 1, endoplasmic reticulum chaperone SIL1, homolog of yeast, hypothetical protein MGC2705, procollagen, type V, alpha 1, procollagen, type V, alpha 3, procollagen, type XI, alpha 1
					EST, Weakly similar to CGHU2V collagen alpha 2(V) chain precursor [H.sapiens], EST, Weakly similar to I49607 procollagen type V alpha 2 - mouse [M.musculus], ESTs, Weakly similar to I49607 procollagen type V alpha 2 - mouse [M.musculus], ESTs, Weakly similar to S41067 collagen alpha 1(III) chain - rat [R.norvegicus], Musmusculus, Similar to putative protein phosphatase 1 nuclear targeting subunit, clone
1399	15438	15438 AI179399	e, g	collagen, type V, alpha 2, procollagen, type V, alpha 2	IMAGE:3157989, mRNA, partial cds, RIKEN cDNA 2810002D19 gene, collagen, type V. alpha 2. procollagen, type III. alpha 1. procollagen type V. alpha 2
2050	21443	21443 NM_019262	₹ =	complement component 1, q subcomponent, beta polypeptide	
2050	21444 N	21444 NM_019262	ji, KĶ	complement component 1, q subcomponent, beta polypeptide	
2304	1707F	707 NM 7076	<u></u>		DNA segment, Chr 12, ERATO Doi 427, expressed, EST, Moderately similar to core promoter element binding protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to core promoter element binding protein [Rattus norvegicus] [R.norvegicus], Kruppel-like factor 7 (ubiquitous), core promoter element binding
3	77	240100 m	J), VV	cole pioniolei elenneni bindirig protein	protein
2040	15347 N	JM_019222		coronin, actin binding protein 1B, coronin, actin-binding protein, 1B	ESTs, Moderately similar to CO1B_RAT Coronin 1B (Coronin 2) [R.norvegicus], coronin 6, coronin, actin binding protein 1B, coronin, actin binding protein 1C, coronin, actin binding protein. 1C, hypothetical protein DKF2n7621166
1739	4467 N	4467 NM_012529	f, g	creatine kinase, brain	
25 5	44081	UM 012529	6		
1/42	1/csoz	2035/JNM_012534	00°, dd	crystallin, alpha A	crystallin, alpha A, expressed sequence Al323437

TABLE 3	3			から ない 人名 はい という はい ない	1985   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887   1887
SEQ C	S.	GenBank Acc.	Model Code Human	Homologous Kr	Human Lomelorasis Contonno Olistos Tillo
1			anno ianni		minimi nomongons ocquence cinstel mile
					ESTs, Moderately similar to T46637 transcription factor 1, neural - rat
					[K:norvegicus], ESTs, Weakly similar to A35804 nucleolin [H:sapiens], ESTs,
					Weakly similar to alpha-crystallin chain B [M.musculus], Homo sapiens mRNA;
					cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus musculus 10, 11 days
					embryo whole body cDNA, RIKEN full-length enriched library,
					clone:2810003118:myelin transcription factor 1-like, full insert sequence, crystallin,
1829	13723	13723 NM_012935	aa, bb	crystallin, alpha B	alpha B, myelin transcription factor 1-like, nucleolin
					EST, Highly similar to CRB2_MOUSE BETA CRYSTALLIN B2 (BP) [R.norvegicus],
	_				EST, Weakly similar to A Chain A, The N-Terminal Domain Of Beta-B2-Crystallin
					Resembles The Putative Ancestral Homodimer [M.musculus], Homo sapiens, clone
1830	487	487 NM_012937	'n	crystallin, beta B2	IMAGE:3542716, mRNA, partial cds, crystallin, beta B2
2312	8844	8844 NM_031690	q	crystallin, beta B3	absent in melanoma 1, absent in melanoma 1-like, crystallin, beta B3
,					C-terminal binding protein 1, Homo sapiens mRNA; cDNA DKFZp434B0914 (from
2035	18572	18572 NM_019201	n, o	C-terminal binding protein 1	clone DKFZp434B0914); partial cds
					C-terminal binding protein 1, Homo sapiens mRNA; cDNA DKFZp434B0914 (from
2035	18573	18573 NM_019201	f, g	C-terminal binding protein 1	
				cyclin D1, cyclin D1 (PRAD1: parathyroid adenomatosis	EST, Moderately similar to JC2342 cyclin D1 - rat [R.norvegicus], cyclin D1, cyclin
1657	25041	25041 D14014	<b>-</b>	1)	
<u> </u>				cyclin D1, cyclin D1 (PRAD1: parathyroid adenomatosis	EST, Moderately similar to JC2342 cyclin D1 - rat [R.norvegicus], cyclin D1, cyclin
2677	24232 X75207	X75207	aa, bb	1)	D1 (PRAD1: parathyroid adenomatosis 1)
					ESTs, Weakly similar to CGG1_RAT Cyclin G1 (Cyclin G) [R.norvegicus], cyclin G,
1825	20757	20757 NM_012923	cc, dd	cyclin G, cyclin G1	cyclin G2, cyclin I
				cyclin-dependent kinase inhibitor 3 (CDK2-associated	
1468	14430,	14430 AI230798	ı	dual specificity phosphatase)	cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)
1804	2853	2853 NM_012838	n, o	cystatin B, cystatin B (stefin B)	cystatin B, cystatin B (stefin B)
					ESTs, Moderately similar to CYTC MOUSE CYSTATIN C PRECURSOR
					[M.musculus], ESTs, Weakly similar to CYTC MOUSE CYSTATIN C PRECURSOR
					[M.musculus], RIKEN cDNA 1110017E11 gene, RIKEN cDNA 9230101F08 gene,
		!		cystatin C, cystatin C (amyloid angiopathy and cerebral	cystatin C, cystatin C (amyloid angiopathy and cerebral hemorrhage), cystatin D,
1482	24327	24327 AI231292	66	hemorrhage)	
2483	1892	1892 NM 057144	a, o, x, ee,	cysteine and glycine-rich protein 3 (cardiac LIM protein), cysteine-rich protein 3	RIKEN cDNA 1200007O21 gene, cysteine and glycine-rich protein 3 (cardiac LIM protein) cysteine-rich protein 3
					ואיסיפון, פאסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיפון איסיייי איסיייי איסייי איסייי איסייי איסייי איסייי א

SEQ GLGC ID GLGC 1968 146 2383 218 1138 235 1743 207	GLGC ID No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Seguence Cluster Title
	04 NM 047202			
	04 NIM 017202			EST, Weakly similar to COX4_HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H.sapiens], ESTs, Moderately similar to COX4_HIMAN_CYTOCHROME_C_OXIDASE_POI_YPEPTIDE_IV_PRECITESO
		ດ	cytochrome c oxidase subunit IV isoform 1, cytochrome c	cytochrome c oxidase subunit IV isoform 1, cytochrome c [H.sapiens], cytochrome c oxidase subunit IV isoform 1, cytochrome c oxidase subunit IV/s
	201 10 1 10 1 20 1 20 1 20 1 20 1 20 1	3 3	e subunit IV isoform 2, cytochrome c	utochnin ya utochoomo o outdooc authinit IV ineferm O autochoomo o autidooc anthinit IVI
	7/45CU_MININD0017	> , c	oxidase, subunit IVb cytochrome c oxidase subunit VIa polypeptide 1.	cylochronie c oxidase subunit IV isolorm 2, cytochrome c oxidase, subunit IVb
ĺ	23574 AI104520	hh	cytochrome c oxidase, subunit VI a, polypeptide 1	
l			e,	
İ	20704 NM 012541	- 44 - 44	cytochrome P450, subfamily I (aromatic compound- inducible) polynantide 2	cytochrome P450, 1a2, aromatic compound inducible, cytochrome P450, subfamily is companied individually.
		20 (5)	te P450, 1b1, benzfalanthracene inducible.	
				cytochrome P450, 1b1, benz[a]anthracene inducible, cytochrome P450, subfamily l
1831	190 NM_012940	<u></u>		(dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile)
			ile, cytochrome	
2281 40	4010 NM_031543	u, v	P450, subfamily IIE (ethanol-inducible)	
			cytochrome P450, 2e1, ethanol inducible, cytochrome	
2281 40	4011 NM_031543	۸	P450, subfamily IIE (ethanol-inducible)	
			cytochrome P450, 51, cytochrome P450, 51 (lanosterol	
1832 209	20928 NM_012941	II,	14-alpha-demethylase)	cytochrome P450, 51, cytochrome P450, 51 (lanosterol 14-alpha-demethylase)
				EST, Moderately similar to 165981 fatty acid omega-hydroxylase [H.sapiens], Mus
				musculus, Similar to cytochrome P450, 4a10, clone MGC:18880 IMAGE:4237837,
,				mRNA, complete cds, Mus musculus, Similar to cytochrome P450, 4a10, clone
				MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22
				gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11,
1708 207	20714 M14972	s, t	cytochrome P450, subfamily IVB, polypeptide 1	expressed sequence Al314743
				EST, Moderately similar to 165981 fatty acid omega-hydroxylase [H.sapiens], Musminscrible.
<u> </u>				models, chimal to sylvenione 1400, 4410, doing MOC. 10000 in/ACE.4201007, months can be a few formals of the principle to purpose and few formals.
				minary, compress cas, mas mascaras, similar to cyromining 1450, 4a10, cione MGC:25972 IMAGE:4240359 mRNA complete cds RIKEN cDNA 42301051-22
			cytochrome P450, subfamily IV B, polypeptide 1,	gene, cytochrome P450, 4a10, cytochrome P450, subfamily IVA, polypeptide 11,
1909 209	20921 NM_016999	s, t	cytochrome P450, subfamily IVB, polypeptide 1	expressed sequence Al314743

SEQ ID G		GenBank Acc.			
	GLGC ID No.	Ŋ.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
	1762	1762 NM_012543		D site albumin promoter binding protein, D site of albumin promoter (albumin D-box) binding protein	D site albumin promoter binding protein, D site of albumin D site albumin promoter binding protein, D site of albumin promoter (albumin D-box) promoter (albumin D-box) binding protein
1744	17631	1763 NM_012543	hh	D site albumin promoter binding protein, D site of albumin promoter (albumin D-box) binding protein	D site albumin promoter binding protein, D site of albumin D site albumin promoter binding protein, D site of albumin promoter (albumin D-box) promoter (albumin D-box) binding protein
2174	172261	17226 NM_024131	b, c, u, v		D-dopachrome tautomerase, EST, Moderately similar to DOPD_HUMAN D-DOPACHROME TAUTOMERASE [H.sapiens]
2174	172271	17227 NM_024131	ပ	D-dopachrome tautomerase	D-dopachrome tautomerase, EST, Moderately similar to DOPD_HUMAN D-DOPACHROME TAUTOMERASE [H.sapiens]
2691	18352 Z12298	212298	aa, bb	decorin	RIKEN cDNA 5530600M07 gene, decorin, expressed sequence C85409, extracellular matrix protein 2, female organ and adipocyte specific
·					EST, Weakly similar to diacylglycerol kinase zeta [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to KDGA MOUSE DIACYLGLYCEROL
		_			KINASE, ALPHA [M.musculus], ESTs, Weakly similar to diacylglycerol kinase [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to KDGA MOUSE
2260	1638	628 NM 031143		diacylglycerol kinase zeta, diacylglycerol kinase, zeta	DIACYLGLYCEROL KINASE, ALPHA [M.musculus], diacylglycerol kinase, alpha (80 kDa), diacylglycerol kinase, gamma 3, diacylglycerol kinase, iota, diacylglycerol
227	3	200	2 1		Finance, 200 (104RD)  ESTS. Highly similar to DDH1 HUMAN NG NG-DIMETHY! ARGININE
					DIMETHYLAMINOHYDROLASE 1 [H.sapiens], ESTs, Weakly similar to
	•				dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine dimethylaminohydrolase (Rathus nomenicus) IR nomenius). dimethylaminine
-	19424	19424 AA850922	h, I	dimethylarginine dimethylaminohydrolase 1	dimetry/aminonydrolase (reaces red regiona) (removegrous), amicanylarime dimetry/aminohydrolase 2
					ESTS, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE DIMETHYLAMINOHYDROI ASF 1 14 sapiens1_FSTs_Weakly similar to
					dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine
					dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine
က	19421	19421 AA945152	pp ga	dimethylarginine dimethylaminohydrolase 1	dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2
	_				LSTS, Highly similar to DDH1_HUMAN NG,NG-DIMETHYLARGININE  DIMETHYLAMINOHYDROLASE 1 [H.sapiens]. ESTs. Weakly similar to
					dimethylarginine dimethylaminohydrolase 1; NG,NG dimethylarginine
2104	19423	19423 NM_022297	u, v	dimethylarginine dimethylaminohydrolase 1	dimethylaminohydrolase [Rattus norvegicus] [R.norvegicus], dimethylarginine dimethylaminohydrolase 1, dimethylarginine dimethylaminohydrolase 2

TABLE 3		:		を持ちます。 - 一般のでは、 - 一般のでは、 - 一般のでは、 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。 - 一般のないできます。	Atty, Ref. 44921-5090-01-WO/2105485
SEQ ID	GI 291	GenBank Acc. No.	Model Code Human F	fornologous Known Gene Name	Human Homologous Sequence Cluster Title
774	7785	7785 A1008758	₹	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)	ESTs, Weakly similar to DPP4 MOUSE DIPEPTIDYL PEPTIDASE IV [M.musculus], ESTs, Weakly similar to DPP4_RAT Dipeptidyl peptidase IV (DPP IV) (GP110 glycoprotein) (Bile canaliculus domain-specific membrane glycoprotein) (R.norvegicus), dipeptidylpeptidase 4, dipeptidylpeptidase 8, fibroblast activation protein, alpha
153	6054	6054 AA818658	p, q, ee, ff	apidermal inding	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor
1833		223 NM_012945	a, p, q, ee, ff	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding p, q, ee, ff epidermal growth factor-like growth factor	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor
1796		1952 NM_012788	<u>0</u>	discs, large (Drosophila) homolog 1, discs, large homolog 1 (Drosophila)	Mus musculus mRNA for mDLG6B, complete cds, discs, large (Drosophila) ge (Drosophila) homolog 1, discs, large homolog 1, discs, large (Drosophila) homolog 5, discs, large homolog 1 phila) (Drosophila), discs, large homolog 1, discs, large homolog 5 (Drosophila), guanylate kinase 1
1951	24106	24106 NM_017141	s, t, bb	se beta, polymerase (DNA directed), beta	Mus musculus, Similar to DNA polymerase beta, clone MGC:6386 IMAGE:3581916, mRNA, complete cds, polymerase (DNA directed), beta
1951	24107	24107 NM_017141	=	DNA polymerase beta, polymerase (DNA directed), beta	Mus musculus, Similar to DNA polymerase beta, clone MGC:6386 IMAGE:3581916, mRNA, complete cds, polymerase (DNA directed), beta
1652	:	18686 D00729	g, hh	dodecenoyl-Coenzyme A delta isomerase (3,2 transenoyl-Coenyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A isomerase) dodecenoyl-Coenzyme A isomerase)
1999	` _	18687 NM_017306 492) NM_017140	다. 	dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase)	dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase), dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A isomerase) dodecenoyl-Coenzyme A isomerase (3,2 trans-enoyl-Coenzyme A isomerase) donamine recentor 3 donamine recentor 3
2218		1719 NM_031024	· · · · · · · · · · · · · · · · · · ·	drebrin 1	drebrin 1
2427	1 1	15996 NM_053769	cc, dd	dual specificity phosphatase 1, protein tyrosine phosphatase, non-receptor type 16	Mus musculus, clone MGC:11703 IMAGE:3964527, mRNA, complete cds, RIKEN cDNA 2310076D10 gene, RIKEN cDNA 4930527G07 gene, dual specificity phosphatase 1, expressed sequence BB104621, protein tyrosine phosphatase, non-receptor type 16

TABLE 3	3		\$ 14.0 to 1		Afty Ref. 44921-5090-01-WO/2105485
SEQ	GLGC ID No.	GenBank Acc. No.	Model Code	・エ	Homologous Sequence Cluster Title
1797		24113 NM_012791	Ф	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	ESTs, Moderately similar to DYRA_RAT Dual-specificity tyrosine-phosphorylation regulated kinase 1A (Protein kinase minibrain homolog) (MNBH) (RP86) (Dual specificity YAK1-related kinase) [R.norvegicus], ESTs, Weakly similar to DYRK MOUSE DUAL-SPECIFICITY TYROSINE-(Y)-PHOSPHORYLATION REGULATED KINASE [M.musculus], Mus musculus, clone MGC:6699 IMAGE:3584001, mRNA, complete cds, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a
1797	·	18135 NM_012791	— 66 ம	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a	ESTs, Moderately similar to DYRA_RAT Dual-specificity tyrosine-phosphorylation regulated kinase 1A (Protein kinase minibrain homolog) (MNBH) (RP86) (Dual specificity YAK1-related kinase) [R.norvegicus], ESTs, Weakly similar to DYRK MOUSE DUAL-SPECIFICITY TYROSINE-(Y)-PHOSPHORYLATION REGULATED KINASE [M.musculus], Mus musculus, clone MGC:6699 IMAGE:3584001, mRNA, complete cds, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine-(Y)-phosphorylated kinase 1a
2415		1118 NM_053655	ñ	dynamin 1-like	ESTs, Moderately similar to dynamin 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0820 protein, clone MGC:37713 IMAGE:5066120, mRNA, complete cds, Mus musculus, Similar to dynamin 1-like, clone MGC:41233 IMAGE:1395338, mRNA, complete cds, dynamin 1-like, dynamin 2
1895		1693 NM_013199	<u>8</u>	dynamin 2	ESTs, Highly similar to A53165 dynamin II isoform aa - rat [R.norvegicus], ESTs, Moderately similar to dynamin 2 [Mus musculus] [M.musculus], Mus musculus, Similar to KIAA0820 protein, clone MGC:37713 IMAGE:5066120, mRNA, complete cds, Mus musculus, Similar to dynamin 1-like, clone MGC:41233 IMAGE:1395338, mRNA, complete cds, RIKEN cDNA 1200011N24 gene, dynamin 2
1775	. !	425 NM_012698	hh	dystrophin (muscular dystrophy, Duchenne and Becker types), dystrophin, muscular dystrophy	dystrobrevin alpha, dystrobrevin, beta, utrophin
1746		23868 NM_012551	a, h, l, p, q, y, z, ee, ff	early growth response 1	early growth response 1, expressed sequence AI835008
1746	1 1	23869 NM_012551 23871 NM_012551	_	early growth response 1 early growth response 1	early growth response 1, expressed sequence AI835008 early growth response 1, expressed sequence AI835008

TABLE 3			4		三字等。 Atty, Ref. 44921-5090-01-WQ/2105485
SEQ ID	GI GC ID No	GenBank Acc.	Model Code	Model Code Human Homologous Known Gene Name	Himan Homologous Sequence Chister Tille
700		23872 NM 012551	p. q. v. z		early growth response 1, expressed sequence AI835008
2020	1	16227 NM 019137	Ε.	4	RIKEN cDNA 4930563M09 gene, early growth response 4
					ESTs, Weakly similar to CD39 MOUSE VASCULAR ATP-
					DIPHOSPHOHYDROLASE [M.musculus], RIKEN cDNA 2010320H07 gene, ecto-
					apyrase, ectonucleoside triphosphate diphosphohydrolase 1, ectonucleoside
1450	23042	23042 AI230130	s, t, ii	ectonucleoside triphosphate diphosphohydrolase 2	triphosphate diphosphohydrolase 3, lysosomal apyrase-like 1
				ectonucleotide pyrophosphatase/phosphodiesterase 2,	
		٠		ectonucleotide pyrophosphatase/phosphodiesterase 2	ectonucleotide pyrophosphatase/phosphodiesterase 2, ectonucleotide
2476		9528 NM_057104		(autotaxin)	pyrophosphatase/phosphodiesterase 2 (autotaxin)
					EGL nine homolog 3 (C. elegans), ESTs, Moderately similar to A53770 growth
					factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], ESTs,
					Weakly similar to A53770 growth factor-responsive protein, vascular smooth muscle
					- rat [R.norvegicus], Mus musculus, Similar to EGL nine homolog 3 (C. elegans),
				EGL nine homolog 3 (C. elegans), egl nine homolog 3 (C.	homolog 3 (C. elegans), egl nine homolog 3 (C. clone MGC:36685 IMAGE:5371854, mRNA, complete cds, egl nine homolog 1 (C.
2067	1323	1323 NM_019371	c, aa, bb, ii	elegans)	elegans), egl nine homolog 3 (C. elegans)
					EGL nine homolog 3 (C. elegans), ESTs, Moderately similar to A53770 growth
			_		factor-responsive protein, vascular smooth muscle - rat [R.norvegicus], ESTs,
					Weakly similar to A53770 growth factor-responsive protein, vascular smooth muscle
					<ul> <li>rat [R.norvegicus], Mus musculus, Similar to EGL nine homolog 3 (C. elegans),</li> </ul>
			f, g, aa, bb, EGL nine	EGL nine homolog 3 (C. elegans), egl nine homolog 3 (C.	homolog 3 (C. elegans), egl nine homolog 3 (C. clone MGC:36685 IMAGE:5371854, mRNA, complete cds, egl nine homolog 1 (C.
2067	1324	1324 NM_019371	호		elegans), egl nine homolog 3 (C. elegans)
					EST, Moderately similar to Peroxisomal enoyl hydratase-like protein; enoyl
					hydratase-like protein, peroxisomal [Rattus norvegicus] [R.norvegicus], enoyl
				enoyl Coenzyme A hydratase 1, peroxisomal, enoyl	Coenzyme A hydratase 1, peroxisomal, enoyl coenzyme A hydratase 1,
2143	20925	20925 NM_022594	g, hh	coenzyme A hydratase 1, peroxisomal	peroxisomal
					EST, Highly similar to putative protein-tyrosine kinase [Homo sapiens] [H.sapiens],
	•				Eph receptor B1, Eph receptor B2, Eph receptor B3, EphB1, expressed sequence
2644	2464)	2464 X13411	u, v	itor B2, EphB2	AW456895, expressed sequence AW488255
1805	3381	338 NM_012843	·	epithelial membrane protein 1	epithelial membrane protein 1
1806		17541 NM 012844	0	epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (venohioric)	enoxide hydrolase 1 microsomal enoxide hydrolase 1 microsomal (xenohiotic)
3	1	11M 0 15044	2		oposico in accomen, oposico in accomen (acricos)

TABLE 3			No. of the second	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	(2) Atty., Ref. 44921-5090-01-WO/2105485
SEQ O	arec ib	GenBank Acc. No.	Model Code Human	Human Homologous Kriown Gene Name	Human Homologous Sequence Cluster Title
					EST, Weakly similar to S21055 translation elongation factor eEF-1 alpha chain - rat [R.norvegicus], ESTs, Highly similar to EFHU1 translation elongation factor eEF-1 alpha-1 chain [H.sapiens], ESTs, Weakly similar to S21055 translation elongation
			:		factor eEF-1 alpha chain - rat [R norvegious], G1 to S phase transition 1, G1 to phase transition 1, G1 to phase transition 2, eukaryotic translation elongation factor
2362	24420	24420 NM_033539	ij, Ķ, ::	eukaryotic translation elongation factor 1 alpha 2	1 alpha 1 ESTA Viable and 100 BAT Florence footon 9 (FE 3) (B. non control of FETA
					ובטופטיחים: אין (בר-ב') ואר בסומשנים הבעב"לאו בוסחקשנים ובטופן ובטופן בטופן בטופן בטופן. בטופן ואר בטופן ואר Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], ESTs,
					Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], G elongation
					laccol, with Intercented, Similar to elongation factor of, clone infort.zo for IMAGE:3984129, mRNA, complete cds, U5 small nuclear ribonucleoprotein 116
					kDa, U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2,
1980	17561	17561 NM_017245	l, m	eukaryotic translation elongation factor 2	expressed sequence AI451340
	_				ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs, Weakly similar to EF2_MOUSE Elongation factor 2 (EF-2) [M.musculus], ESTs,
					Weakly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], G elongation
	-				factor, Mus musculus, Similar to elongation factor G2, clone MGC:28160
					IMAGE:3984129, mRNA, complete cds, U5 small nuclear ribonucleoprotein 116
					kDa, U5 snRNP-specific protein, 116 kD, eukaryotic translation elongation factor 2,
1980	17563	17563 NM_017245	h, I	eukaryotic translation elongation factor 2	expressed sequence A1451340
					ESTs, Weakly similar to EUKARYOTIC INITIATION FACTOR 4A-II [M.musculus],
1206	23152	23152 AI169170	_	eukaryotic translation initiation factor 4A, isoform 2	eukaryotic translation initiation factor 4A, isoform 2
					DNA segment, Chr 1, ERATO Doi 692, expressed, ESTs, Highly similar to
					EUKARYOTIC TRANSLATION (NITIATION FACTOR 5 [R.norvegicus], KIAA1856
2075	18713	18713 NM_020075	p, q, s, t	eukaryotic translation initiation factor 5	protein, eukaryotic translation initiation factor 5
					DNA segment, Chr 1, ERATO Doi 692, expressed, ESTs, Highly similar to
1			•		EUKARYOTIC TRANSLATION INITIATION FACTOR 5 (R.norvegicus), KIAA1856
2075	- 1	18715 NM_020075	ee, ff	eukaryotic translation initiation factor 5	protein, eukaryotic translation initiation factor 5
				fatty acid binding protein 3, muscle and heart, fatty acid	EST, Moderately similar to FABH MOUSE FATTY ACID BINDING PROTEIN,
2184	16476	16476 NM 024162	a a	binding protein 3, muscle and neart (mammary-derived growth inhibitor)	HEAK I [M.musculus], ratty acid binding protein 3, muscle and heart, ratty acid binding protein 3, muscle and heart (mammany-derived growth inhibitor)
1014	2 (5)	1VIVI_V67104	aga	giovan initiation	בייסיום אין

TABLE	3			・ は、  Attv. Ref 44921-5090-01-WO/2105485	
SEO		GenBank Acc.			
<u>_</u>	GLGC ID No.	No.	Model Code Human	e Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
	•				ESTS, Weakly similar to tatty acid Coenzyme A ligase, long chain 2; acetyi-Coenzyme A synthetase; acetate-CoA ligase; acetvi-Coenzyme A synthetase 1
					(ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus
					musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744
					IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical
					protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty
					acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5,
•				fatty acid Coenzyme A ligase, long chain 2, fatty-acid-	fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-
431		20985 AA893242	=	Coenzyme A ligase, long-chain 2	CoA synthetase, lipidosis-related protein lipidosin
					ES is, Weakly similar to fatty acid Coenzyme A ligase, long chain 2; acetyl-
					Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1
					(ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus
					musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744
					IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical
			,		protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty
				fatty acid Coenzyme A ligase, long chain 2, fatty-acid-	fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-
431	20986,	20986 AA893242	=	Coenzyme A ligase, long-chain 2	CoA synthetase, lipidosis-related protein lipidosin
			-		ESTS, Weakly similar to Tatty acid Coenzyme A ligase, long chain 2; acetyl-
					Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1
					(ADP forming); acetyl-CoA synthetase [Mus musculus] [M.musculus], Mus
					musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744
	<del></del>				IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical
					protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty
	<u>.</u>				acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5,
	•		a, h, l, ee, ff,	a, h, l, ee, ff, fatty acid Coenzyme A ligase, long chain 2, fatty-acid-	fatty-acid-Coenzyme A ligase, long-chain 1, gonadotropin-regulated long chain acyl-
972	- 1	20983 AI044900	춫	Coenzyme A ligase, long-chain 2	CoA synthetase, lipidosis-related protein lipidosin

TABLE 3	3		Short france	All the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	Attv. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID No.	GenBank Acc. No.	Model:Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ES1s, Weakly similar to 1atty acid Coenzyme A ligase, long chain 2; acetyl- Coenzyme A synthetase; acetate-CoA ligase; acetyl-Coenzyme A synthetase 1 (ADP forming); acetyl-CoA synthetase fMus musculus] fM.musculus], Mus
					musculus, Similar to fatty-acid-Coenzyme A ligase, long-chain 6, clone MGC:28744 IMAGE:4481949, mRNA, complete cds, Mus musculus, Similar to hypothetical
					protein FLJ20920, clone MGC:25878 IMAGE:4210220, mRNA, complete cds, fatty
				fatty acid Coenzyme A ligase Iong chain 2 fatty-acid-	acid Coenzyme A ligase, long chain 2, fatty acid Coenzyme A ligase, long chain 5, fatty-acid-Coenzyme A ligase Jong-chain 1, gonadofronin-renulated Jong-chain acyt.
1668		20984   D90109	II	Coenzyme A ligase, long-chain 2	CoA synthetase, Ilpidosis-related protein lipidosin
2		COCCIO FAIN		fatty acid-Coenzyme A ligase, long chain 4, fatty-acid-	
2410	1	13000 MINICONS	J, K, Y, Z	Coenzyme A ligase, long-chain 4	
					FBJ murine osteosarcoma viral oncogene homolog B, FBJ osteosarcoma
1319		10182 A1176185	D. G. GG	red osteosarcoma viral oncodene, v-tos red murne osteosarcoma viral oncodene homolog	oncogene, rbJ osteosarcoma oncogene b, V-tos rbJ murine osteosarcoma viral onconene homolog
	1		Γ		FBJ murine osteosarcoma viral oncodene homolog R. FB. Losteosarcoma
				FBJ osteosarcoma oncogene, v-fos FBJ murine	oncogene, FBJ osteosarcoma oncogene B, v-fos FBJ murine osteosarcoma viral
2641	10181	10181 X06769	p,q		oncogene homolog
				Fc fragment of IgG, low affinity IIIa, receptor for (CD16),	
2440	20868	20868 NM_053843	kk	Fc receptor, IgG, low affinity III	
				Fc fragment of IgG, low affinity IIIa, receptor for (CD16),	
2440	20869	20869 NM_053843	w, x, kk	Fc receptor, IgG, low affinity III	
				ent of IgG, receptor, transporter, alpha, Fc	Fc fragment of IgG, receptor, fransporter, alpha, Fc receptor, IgG, alpha chain
2359	1	12364 NM_033351	e, y, z, ee, ff receptor,	IgG, alpha chain transporter	transporter
				rter, alpha, Fc	Fc fragment of IgG, receptor, transporter, alpha, Fc receptor, IgG, alpha chain
2359		12365 NM_033351	е	receptor, IgG, alpha chain transporter	transporter
1944	21662	21662 NM_017126	a, ee, ff	ferredoxin 1	ferredoxin 1, similar to RIKEN cDNA B230118G17 gene
1944	1	21663 NM_017126	y, z, ee, ff	ferredoxin 1	ferredoxin 1, similar to RIKEN cDNA B230118G17 gene
					ESTs, Moderately similar to ferritin light chain 1 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to FRL2 MOUSE FERRITIN LIGHT CHAIN 2
2119		8211 NM_022500	:: Κ	ferritin liaht chain 1, ferritin, liaht polypeptide	[M.musculus], RIKEN cDNA 4933416E14 gene, ferritin light chain 1, ferritin light chain 2. ferritin. Ilaht polypeptide
	l				

TABLE 3	3	6 8 A 11 A	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	この かんかい こうしょう はんしょう はんかい かいっこう	Attv. Ref. 44921-5090-01-WO/2105485
SEQ		GenBank Acc.			
₽	GLGC ID No	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
			-	,	ESTs, Moderately similar to ferritin light chain 1 [Rattus norvegicus] [R.norvegicus], ESTs, Moderately similar to FRL2 MOUSE FERRITIN LIGHT CHAIN 2
2119		8212 NM_022500	n, I, kk, II	ferritin light chain 1, ferritin, light polypeptide	[M.musculus], RIKEN cDNA 4933416E14 gene, ferritin light chain 1, ferritin light chain 2. ferritin. light polvpeptide
					ESTs, Moderately similar to ferritin light chain 1 [Rattus norvegious] [R.norvegious],
			•		ESTs, Moderately similar to FRL2 MOUSE FERRITIN LIGHT CHAIN 2
					[M.musculus], RIKEN cDNA 4933416E14 gene, ferritin light chain 1, ferritin light
2600		8210 S61960	jj, kk	ferritin light chain 1, ferritin, light polypeptide	chain 2, ferritin, light polypeptide
1747	6477	6477 NM_012559	2	fibrinogen, gamma polypeptide	
1747		6478 NM_012559	y, z	fibrinogen, gamma polypeptide	
2091		20177 NM_021867	ď, jj, KK	fibroblast growth factor 16	fibroblast growth factor 16
1729		M91599	cc, dd	fibroblast growth factor receptor 4	
					EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly
000		077070	-		SIMILIATIO PROTEIN-1 YROSINE PHOSPHATASE ETA PRECURSOR [M. MUSCUIUS].
7077	ĺ	5618 NM_019143	s, t	libronectin 1	tibronectin 1
					EST, Highly similar to FIBRONECTIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to PROTEIN-TYROSINE PHOSPHATASE ETA PRECURSOR IM musculus
2022		5622 NM_019143	n, o	fibronectin 1	fibronectin 1
2025		6451 NM_019153	f, g	fibulin 5	
				polina profesa 17 (1900). EVENS binding profess	FK506 binding protein 10 (65 kDa), FK506 binding protein 1A (12kD), FK506
1318		6782 AI176170	Φ	TROOG BINGING PLOCEIN TA (TEXD), PROOG BINGING PLOCEIN 1a (12 KDa)	binding protein (a (12 kDa), FRSU6 binding protein 5, FRSU6 binding protein 7 (23 kDa), FK506 binding protein 8 (38 kDa)
2155		24346 NM_022701	99	flotillin 1	flotillin 1
1696		25359 L13202	n, o	forkhead box D3	
					EST, Weakly similar to four and a half LIM domains 2 [Rattus norvegicus]
2309		18403 NM_031677	d, jj, kk	four and a half LIM domains 2	Irano vegicus), activator ot Ordan III testis, tour and a nair Liivi domains 2, tour and Ia half LIM domains 3, vascular Rab-GAP/TBC-containing
2411		1228 NM_053625	 *	G elongation factor, mitochondrial elongation factor G	6
2358		23715 NM_033237	j, k, y, z, jj, kk	galanin	
				gamma-aminobutyric acid (GABA) A receptor, gamma 1, gamma-aminobutyric acid (GABA-A) receptor, subunit	gamma-aminobutyric acid (GABA) A receptor, gamma 2, gamma-aminobutyric acid
2496		506 NM_080586	<u>:=</u>	gamma 1	(GABA-A) receptor, subunit gamma 1

TABLE 3	3		THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	A Company of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	- Alty Ref 44921-5090-01-1-01/01/05485
SEO □	Ger Ci Co lo	GenBank Acc.	Model Code Himse	Himan Homologois Krouis Coro Nomo	History Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of th
		.0.1	Inionei code		inuman nomonogous sequence cluster inte
-				gap junction membrane channel protein alpha 1, gap	gap junction membrane channel protein alpha 1, gap junction protein, alpha 1, 43kD
1749		482 NM_012567	s, t	Junction protein, alpha 1, 43kD (connexin 43)	(connexin 43)
				gap junction membrane channel protein afpha 5, gap	gap junction membrane channel protein alpha 5, gap junction protein, alpha 5, 40kD
2051		1143 NM_019280	w, ×	junction protein, alpha 5, 40kD (connexin 40)	(connexin 40)
2031		23481 NM_019185	aa, bb	GATA binding protein 6	GATA binding protein 5, GATA binding protein 6
				GDP dissociation inhibitor 1, guanosine diphosphate	
1934		1383 NM_017088	_	(GDP) dissociation inhibitor 1	GDP dissociation inhibitor 1, guanosine diphosphate (GDP) dissociation inhibitor 2
				general transcription factor II A, 2 (12kD subunit), general	transcription factor II A, 2 (12kD subunit), general general transcription factor II A, 2 (12kD subunit), general transcription factor IIA, 2
2374		18949 NM_053345	:==	transcription factor IIA, 2 (12kD subunit)	(12kD subunit)
				glucokinase, glucokinase (hexokinase 4, maturity onset	
1748		619 NM_012565	l, m, n, o	diabetes of the young 2)	
					Mus musculus, Similar to solute carrier family 37 (glycerol-3-phosphate transporter),
					member 1, clone MGC:28167 IMAGE:3985469, mRNA, complete cds, glucose-6-
					phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase,
				glucose-6-phosphatase, transport (glucose-6-phosphate)	6-phosphatase, transport (glucose-6-phosphate)   transport protein 1, solute carrier family 37 (glycerol-3-phosphate transporter),
2293		5496 NM_031589	a, ee, ff	protein 1, glucose-6-phosphatase, transport protein 1	member 1
					Mus musculus, Similar to solute carrier family 37 (glycerol-3-phosphate transporter),
					member 1, clone MGC:28167 IMAGE:3985469, mRNA, complete cds, glucose-6-
				•	phosphatase, transport (glucose-6-phosphate) protein 1, glucose-6-phosphatase,
				glucose-6-phosphatase, transport (glucose-6-phosphate)	transport protein 1, solute carrier family 37 (glycerol-3-phosphate transporter).
2293		5497 NM_031589		_	member 1
				1, glutamate	glutamate receptor, ionotropic, AMPA 1, glutamate receptor, ionotropic, AMPA1
2597		15693 S56679	aa, bb		(alpha 1)
				glutamate receptor, ionotropic, N-methyl D-aspartate 1,	
1911		24676 NM_017010	aa, bb	glutamate receptor, ionotropic, NMDA1 (zeta 1)	
				glutamate-ammonia ligase (glutamine synthase),	
1929		11152 NM_017073	c, s, t, kk	glutamine synthetase	
				glutamate-ammonia ligase (glutamine synthase),	
1929		11153 NM_017073	y, kk	glutamine synthetase	
1998		14004 NM 017305	, d	glutamate-cysteine ligase, modifier subunit, glutamate-	glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier
2001	1	000110	laa, bb		SUDUIN

TABLE 3	3			を できる	- Atly, Ref. 44921-5090-01-WO/2105485
SEQ ID	Tec ID	GenBank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to GLSK RAT GLUTAMINASE, KIDNEY ISOFORM PRECURSOR [R.norvegicus], ESTs, Moderately similar to GLSK_HUMAN GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (GLS) (L-GLUTAMINE AMIDOHYDROLASE) (K-GLUTAMINASE) [H.sapiens], Homo sapiens chaminase isoform Minacursor mRNA complete of septensed sequence
544		5206 AA925755	==	glutaminase	gradinitate isolomi in predatori, mi viri, comprete das, expressed sequence. Al314027, glutaminase
1150		23596 AI105435	qq	glutaryl-Coenzyme A dehydrogenase	expressed sequence Al266902, expressed sequence D17825, glutaryl-Coenzyme A dehydrogenase
2202		1852 NM 030826	aa G	glutathione peroxidase 1	ESTs, Weakly similar to GSHC_RAT Glutathione peroxidase (GSHPX-1) (Cellular glutathione peroxidase) [R.norvegicus], glutathione peroxidase 1, glutathione peroxidase 2 (gastrointestinal)
					ESTs, Weakly similar to GSHH_RAT Phospholipid hydroperoxide glutathione peroxidase, mitochondrial precursor (PHGPx) (GPX-4) [R.norvegicus], RIKEN cDNA
1958		17686 NM_017165	hh	glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)	2310016C16 gene, RIKEN cDNA 3110050F08 gene, glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)
1912		21013 NM 017014	q	glutathione S-transferase M2 (muscle), glutathione S- transferase, mu 2	
1799	1	961 NM 012796	D	glutathione S-transferase theta 2, glutathione S- transferase, theta 2	dutathione S-transferase theta 2, qutathione S-transferase, theta 2
1910		8417 NM_017008	,	glyceraldehyde-3-phosphate dehydrogenase	ESTs, Moderately similar to G3P MOUSE GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE [M.musculus], Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3000002C10:glyceraldehyde-3-phosphate dehydrogenase, full insert sequence, RIKEN cDNA 4930448K20 gene, glyceraldehyde-3-phosphate dehydrogenase
1784		25650 NM_012736	0	glycerol phosphate dehydrogenase 1, mitochondrial, glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610001M21:glycerol phosphate dehydrogenase 1, mitochondrial, full insert sequence, glycerol phosphate dehydrogenase 1, mitochondrial, glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
2513		19456 NM_133298	h, I, w, x	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
2513		4048 NM_133298	h, l, n, o, w, x	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb
2513		4049 NM_133298	c, h, l, n, o, w, x	glycoprotein (transmembrane) nmb	glycoprotein (transmembrane) nmb

TABLE 3	.3		10 (41)		BARRON MANAGER STATE AND A MANAGER STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE
CHS CHS		GenBank Acc.			1040017/04A-10-0000-1784+ 191/14
<u>o</u>	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
143		16756 AA818089		glycyl-tRNA synthetase	glycyl-tRNA synthetase
2203		21746 NM_030828	ပ	glypican 1	glypican 1
2019		15975 NM_019132	1=	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus, GNAS complex locus	ESTs, Moderately similar to S34421 GTP-binding regulatory protein Gs alpha chain [H.sapiens], GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus. GNAS complex locus. RIKEN cDNA 5530400H20 nene. Sang XI as protein
12	1	21152 X14848	99	golgi SNAP receptor complex member 1	Homo sapiens, Similar to golgi SNAP receptor complex member 1, clone MGC:13657 IMAGE:4250494, mRNA, complete cds, golgi SNAP receptor complex member 1
1941		20745 NM_017113	f, g	granulin	granulin
1941	:	NM_017113	gg gg		granulin
2173		352 NM_024127	b d	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage-inducible, alpha	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage inducible 45 beta, growth arrest and DNA-damage-inducible, alpha
2173		353 NM_024127	q, ee, ff, gg		growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage inducible 45 beta, growth arrest and DNA-damage-inducible, alpha
2173		354 NM_024127	b, q, ee, ff	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage-inducible, alpha	growth arrest and DNA-damage-inducible 45 alpha, growth arrest and DNA-damage inducible 45 beta, growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage-inducible.
1026		17506 AI070068		growth arrest and DNA-damage-inducible, beta	growth arrest and DNA-damage-inducible 45 beta, growth arrest and DNA-damage-inducible, alpha, growth arrest and DNA-damage-inducible, beta
2473		25290 NM_057100	>	growth arrest specific 6, growth arrest-specific 6	ESTs, Highly similar to growth arrest specific 6 [Rattus norvegicus] [R.norvegicus], growth arrest specific 6, growth arrest-specific 6
2301	15767	15767 NM_031623	aa, bb, jj, kk, ll	growth factor receptor bound protein 14, growth factor receptor-bound protein 14	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein, growth factor receptor bound protein 10, growth factor receptor bound protein 14, growth factor receptor-bound protein 10, growth factor receptor-bound protein 10, growth factor receptor-bound protein 10.
1902		1396 NM_013222		growth factor, augmenter of liver regeneration (ERV1 homolog, S. cerevisiae), growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)	growth factor, augmenter of liver regeneration (ERV1 homolog, S. cerevisiae), growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)
815		17524 AI010568	· · · · ·	growth hormone receptor	growth hormone receptor
1936		10886 NM_01 /094		growth hormone receptor	growth hormone receptor
1936		1088/ NM_01/094		growth hormone receptor	growth hormone receptor
0000		NIM 021572	e r un	growth normone receptor	growth hormone receptor
10622	246	342/WWUS1377	n n	growin normone releasing hormone	

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TABLE 3					○ 100 100 100 100 100 100 100 100 100 10
SEO	۲	GenBank Acc.			
• • • • • • • • • • • • • • • • • • • •	GLGC ID No.	40.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1807	1249	1249 NM_012850	η, v		growth hormone releasing hormone receptor
				GrpE-like 1, mitochondrial, GrpE-like protein	
2199	8621	862 NM_024487	hh	cochaperone	
				GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-	
2187	15349N	15349 NM_024356	a, y, z		GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-responsive dystonia)
				GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-	
2187	15353N	15353 NM_024356	j, k, y, z, ii		GTP cyclohydrolase 1, GTP cyclohydrolase 1 (dopa-responsive dystonia)
				guanidinoacetate N-methyltransferase, guanidinoacetate	expressed sequence AA571402, guanidinoacetate N-methyltransferase,
1296	19118 A	19118 AI175281	£	methyltransferase	guanidinoacetate methyltransferase
				guanidinoacetate N-methyltransferase, guanidinoacetate	guanidinoacetate N-methyltransferase, guanidinoacetate expressed sequence AA571402, guanidinoacetate N-methyltransferase,
1798	16947 N	16947 NM_012793	b, u, v, jj, kk methyltran	sferase	guanidinoacetate methyltransferase
					ESTs, Moderately similar to guanine nucleotide binding protein (G protein) alpha 12
					[Rattus norvegicus] [R.norvegicus], guanine nucleotide binding protein (G protein),
				guanine nucleotide binding protein (G protein) alpha 12,	alpha 13, guanine nucleotide binding protein, alpha 12, guanine nucleotide binding
2220	V 069	690 NM_031034	w, x		protein, alpha 13
				), alpha	
					guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide
1870	19949N	19949 NM_013106	E.		3, guanine nucleotide binding protein, alpha inhibiting 3
					ESTs, Weakly similar to C Chain C, Apaf-1 Card In Complex With Prodomain Of
					Procaspase-9 (SUB 1-95 [H.sapiens], Homo sapiens mRNA expressed only in
	_				placental villi, clone SMAP5, PWP2 periodic tryptophan protein homolog (yeast),
<del></del> -					Rattus norvegicus guanine nucleotide binding protein beta 4 subunit mRNA, partial
				guanine nucleotide binding protein (G protein), beta	cds, guanine nucleotide binding protein (G protein), beta polypeptide 2, guanine
139	2143	2143 AA817892	_	eta 2	
					[H.sapiens], EST, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-
					BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo
			-		sapiens cDNA: FLJ21913 fis, clone HEP03888, Mus musculus, Similar to
-					hypothetical protein FLJ10385, clone MGC:28622 IMAGE:4220923, mRNA,
					complete cds, expressed sequence AL033335, guanine nucleotide binding protein
•					(G protein), beta polypeptide 1-like, guanine nucleotide binding protein (G protein),
				ne nucleotide binding protein,	beta polypeptide 2-like 1, guanine nucleotide binding protein, beta 2, related
2506	14959	14959 NM_130734	w, x	beta 2, related sequence 1	sequence 1

ITABLE 3	···		Av. Tammanage vi		ATV Ref 44091-5000-1000-1000-1000-1000-1000-1000-1
SEO		GenBank Acc.			
Ω	GLGC ID No.	No:	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ES1, Weakly similar to B33828 G1P-binding protein beta chain nomotog
					[H.sapiens], EST, Weakly similar to GBLP_HUMAN GUANINE NUCLEOTIDE-
					BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo
					sapiens cDNA: FLJ21913 fis, clone HEP03888, Mus musculus, Similar to
					hypothetical protein FLJ10385, clone MGC:28622 IMAGE:4220923, mRNA,
					complete cds, SWI/SNF related, matrix associated, actin dependent regulator of
					chromatin, subfamily b, member 1, expressed sequence AL033335, guanine
				guanine nucleotide binding protein (G protein), beta	nucleotide binding protein (G protein), beta polypeptide 1-like, guanine nucleotide
				polypeptide 2-like 1, guanine nucleotide binding protein,	binding protein (G protein), beta polypeptide 2-like 1, guanine nucleotide binding
1250	ľ	14960 AI171319	w, x	beta 2, related sequence 1	protein, beta 2, related sequence 1
				guanine nucleotide binding protein (G protein), gamma 7,	
				ucleotide binding protein (G protein), gamma 7	guanine nucleotide binding protein (G protein), gamma 12, guanine nucleotide
2175		1879 NM_024138	E,		binding protein (G protein), gamma 7
1750		16025 NM_012578	p, q	H1 histone family, member 0	H1 histone family, member 0, H1 histone family, member O (oocyte-specific)
			p, q, s, t, ee,		
1750		16026 NM_012578	Ħ	H1 histone family, member 0	H1 histone family, member 0, H1 histone family, member O (oocyte-specific)
1964		1488 NM_017182	ᆫ	H2A histone family, member Y	H2A histone family, member Y, RIKEN cDNA 4933422H23 gene
					EST, Weakly similar to histone H2A.F/Z variant [Homo sapiens] [H.sapiens], ESTs,
					Highly similar to S03644 histone H2A.Z - rat [R.norvegicus], ESTs, Weakly similar to
					H2AZ_HUMAN HISTONE H2A [H.sapiens], H2A histone family, member Z, Homo
					sapiens cDNA FLJ32241 fis, clone PLACE6005231, RIKEN cDNA C530002L11
2147		17661 NM_022674	d, 99	H2A histone family, member Z	gene, histone H2A.F/Z variant
			-		
				aperonin 10), heat shock	sequence AW108200, heat shock 10 kDa protein 1 (chaperonin 10), heat shock
1834		5033 NM_012966	s, t	10kD protein 1 (chaperonin 10)	(10kD protein 1 (chaperonin 10)
					ESTs, Weakly similar to S47532 chaperonin groES [H.sapiens], expressed
				heat shock 10 kDa protein 1 (chaperonin 10), heat shock	heat shock 10 kDa protein 1 (chaperonin 10), heat shock  sequence AW108200, heat shock 10 kDa protein 1 (chaperonin 10), heat shock
1834		5034 NM_012966	ee' #	10kD protein 1 (chaperonin 10)	10kD protein 1 (chaperonin 10)
200		ACA CON AND			EST, Moderately similar to heat shock 27kD protein 2 [Rattus norvegicus]
cnc7	- 1	11/08 NIN _130431	S	neat snock 2/KU protein 2	IR.norvegicus), heat shock 27kD protein 2

S		GenBank Acc.			
Ω	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Weakly similar to GR78_RAT 78 KD GLUCOSE-REGULATED PROTEIN PRECURSOR (GRP 78) (IMMUNOGLOBULIN HEAVY CHAIN BINDING PROTEIN) (BIP) (STEROIDOGENESIS-ACTIVATOR POLYPEPTIDE) [R.novegicus],
1707		1466 M14050	Φ	heat shock 70kD protein 5 (glucose-regulated protein, 78kD)	expressed sequence AL022860, heat shock 70kD protein 5 (glucose-regulated protein, 78kD)
					EST, Moderafely similar to HS7C_HUMAN HEAT SHOCK COGNATE 71 KDA PROTEI [H.sapiens], EST, Weakly similar to A27077 dnaK-type molecular
					chaperone [H.sapiens], EST, Weakly similar to A45935 dnaK-type molecular
		_	·		chaperone hsc70 - mouse [M.musculus], ESTs, Moderately similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN [M.musculus], ESTs. Weakly
		NIM OCCUPA	3		similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN
7183	-	17/64 NIM_UZ4351	е, р, г, ее, п	e, p, r, ee, π neat snock /ukD protein 8	IM.musculus], heat shock / UkD protein 8
					EST, Moderately similar to HS/C_HUMAN HEAT SHOCK COGNATE /1 KDA PROTEI [H.sapiens], EST, Weakly similar to A27077 dnaK-type molecular
	-				chaperone [H.sapiens], EST, Weakly similar to A45935 dnaK-type molecular
					chaperone hsc70 - mouse [M.musculus], ESTs, Moderately similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN IM misculus] ESTs. Weakly
			e, p, q, r,		similar to HS7C MOUSE HEAT SHOCK COGNATE 71 KDA PROTEIN
2185	1	17765 NM_024351	ee, ff	heat shock 70kD protein 8	[M.musculus], heat shock 70kD protein 8
1402		16081 AI179610	a, p, q, r, y, z, gg, kk	heme oxygenase (decycling) 1	heme oxygenase (decycling) 1
1751		16080 NM_012580	p, q, y, z, kk	p, q, y, z, kk heme oxygenase (decycling) 1	heme oxygenase (decycling) 1
,					EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS (R.norvegicus), EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS (R.norvegicus), ESTs, Moderately similar to HBA_RAT
1389	1	18907 Al178971	> :	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2, hemoglobin, theta 1

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SEQ ID	G C	GenBank Acc.	Model Code Human'H	omolonous Known Gene Memo	
			appo laponi	railiai i iotiologous ratowii Gene Ivairie	numan nomologous sequence Cluster Title
1406		1686 AI179971	o	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 2, hemoglobin, theta 1
1406		1687 AI179971	۸ ن ر م	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 2, hemoglobin, theta 1
1869		1684 NM_013096	> . 'o' 'q'	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2, hemoglobin, theta 1
1869		1685 NM_013096	, , ,	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2, hemoglobin, theta 1

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SEO		GenBank Acc.	_		
Q	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homölogous Sequence Cluster Title
1869		1688 NM_013096	Ö	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2, hemoglobin, theta 1
1869		1689 NM_013096	^ ວໍ ຊໍ	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	EST, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], EST, Weakly similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], ESTs, Moderately similar to HBA_RAT HEMOGLOBIN ALPHA-1 AND ALPHA-2 CHAINS [R.norvegicus], RIKEN cDNA 2510042H12 gene, hemoglobin alpha chain complex, hemoglobin alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2, hemoglobin, theta 1
305		18897 AA875207		hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence Al036344, hemoglobin, beta, hemoglobin, beta adult major chain, hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, beta adult minor chain, hemoglobin, beta
839	17830	17830 AI011943	U	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence Al036344, hemoglobin, beta, hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta
2356	1	25468 NM_033234	b, c, v	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence AI036344, hemoglobin, beta hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta
2356	17829	17829 NM_033234	Ų	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence AI036344, hemoglobin, beta hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta
2356		17832 NM_033234	b, c, v	hemoglobin beta chain complex, hemoglobin, beta	EST, Moderately similar to HBB1_RAT Hemoglobin beta chain, major-form [R.norvegicus], expressed sequence Al036344, hemoglobin, beta, hemoglobin, beta adult major chain, hemoglobin, beta adult minor chain, hemoglobin, delta

TABLE 3	62	7.7		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Ath. Ref 44921-5090.01-WOJ2105485
SEQ		GenBank Acc.			
۵	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Highly similar to HSS2 MOUSE HEPARIN SULFATE N-DEACETYLASE/N-SULFOTRANSFERASE [M.musculus], ESTs, Weakly similar to HSS2 MOUSE
					HEPARIN SULFATE N-DEACETYLASE/N-SULFOTRANSFERASE [M.musculus],   ESTs, Weakly similar to HSS2_HUMAN HEPARIN SULFATE N-DEACETYLASE/N-
					SULFOTRANSFERASE [H.sapiens], N-deacetylase/N-sulfotransferase (heparan
					glucosaminyl) 2, N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 3, N-
					deacetylase/N-sulfotransferase (heparin glucosaminyl) 4, N-deacetylase/N-
875		6758 AI013394		heneren eulfate (nluncamine) 2.0 eulfotranoforna 4	sulfotransferase 4, RIKEN cDNA 4930439H17 gene, heparan sulfate (glucosamine)
1587		18151 AI237212		hepatilis B vinis x interacting protein	henalitie Riving vinteracting protein
					DAZ associated protein 1. Musashi homolog 1(Drosophila). Musashi homolog 2
			b, d, f, g, l,		(Drosophila), RIKEN cDNA 4933434H11 gene, expressed sequence AA959857,
2269	42351	4235 NM_031330	æ	heterogeneous nuclear ribonucleoprotein A/B	heterogeneous nuclear ribonucleoprotein A/B, musashi homolog 1 (Drosophila)
					ESTS, Highly similar to 152962 FBRNP [H.sapiens], ESTS, Highly similar to
					heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar
					to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar
					to ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing
					protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP)
					[R.norvegicus], Homo sapiens cDNA: FLJ22720 fis, clone HSI14320, Mus
					musculus, Similar to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437,
					mRNA, complete cds, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear
1981	17501	17501 NM_017248	E -	heterogeneous nuclear ribonucleoprotein A1	ribonucleoprotein A1
					ESTS, Highly similar to 152962 FBRNP [H.sapiens], ESTS, Highly similar to
					heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar
					to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar
					to ROA1_RAT Heterogeneous nuclear ribonucleoprotein A1 (Helix-destabilizing
					protein) (Single-strand binding protein) (hnRNP core protein A1) (HDP)
					[R.norvegicus], Homo sapiens cDNA: FLJ22720 fis, clone HSI14320, Mus
					musculus, Similar to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437,
3				-	mRNA, complete cds, RIKEN cDNA 4930547K05 gene, heterogeneous nuclear
1381	1	1/502 NM_01/248	E :	neterogeneous nuclear ribonucleoprotein A1	Iribonucleoprotein A1

TABLE 3		Control of the second		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Atty. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID No.	GenBank Acc. No.	Model Code Human H	omologous Known Gene N	Human Homologous Sequence Cluster Title
2482		2413 NM_057141	b, g, n, o, u, v	heterogeneous nuclear ribonucleoprotein K	ESTs, Highly similar to heterogeneous nuclear ribonucleoprotein K, isoform b; dC-stretch binding protein; transformation upregulated nuclear protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to heterogeneous nuclear ribonucleoprotein K [Rattus norvegicus] [R.norvegicus], heterogeneous nuclear ribonucleoprotein K, poly(rC) binding protein 4
2482		2416 NM_057141		heterogeneous nuclear ribonucleoprotein K	ESTs, Highly similar to heterogeneous nuclear ribonucleoprotein K, isoform b; dC-stretch binding protein; transformation upregulated nuclear protein [Homo sapiens] [H.sapiens], ESTs, Weakly similar to heterogeneous nuclear ribonucleoprotein K [Rattus norvegicus] [R.norvegicus], heterogeneous nuclear ribonucleoprotein K, poly(rC) binding protein 4
		,			ESTs, Weakly similar to HGF-regulated tyrosine kinase substrate [Mus musculus] [M.musculus], HGF-regulated tyrosine kinase substrate, RIKEN cDNA 1700013B03 gene, WD40- and FYVE-domain containing protein 2, hepatocyte growth factor-regulated tyrosine kinase substrate, myotubularin related protein 3.
761	10108	10108 AI007857	ν, ν	HGF-regulated tyrosine kinase substrate, hepatocyte growth factor-regulated tyrosine kinase substrate	phosphoinositide-binding protein SR1, target of myb1 homolog (chicken), zinc finger protein, subfamily 2A (FYVE domain containing), 1
1942			0,'0	hippocalcin	ESTs, Highily similar to HIPP_HUMAIN Neuron specific calcium-binding protein hippocalcin (P23K) (Calcium-binding protein BDR-2) [R.norvegicus], ESTs, Weakly similar to HIPP RAT NEURON SPECIFIC CALCIUM-BINDING PROTEIN HIPPOCALCIN [M.musculus], hippocalcin
369		17345,AA892014	hh	HLA-B associated transcript 1, HLA-B-associated transcript 1A	ESTs, Highly similar to S33681 translation initiation factor elF-4A.l [H.sapiens], ESTs, Weakly similar to A42811 nuclear RNA helicase (DEAD family) homolog - rat [R.norvegicus], RIKEN cDNA 2610307C23 gene, hypothetical protein MGC6664
1839		571 NM_012982	cc, dd	homeo box, msh-like 2, msh homeo box homolog 2 (Drosophila)	homeo box, msh-like 2, msh homeo box homolog 2 (Drosophila)
2368	l	15748 NM_053309	:=	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 2	Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 1
1888		22306 NM_013179	aa, bb	hypocretin, hypocretin (orexin) neuropeptide precursor	hypocretin, hypocretin (orexin) neuropeptide precursor
2188		1146 NM 024359	^	hypoxia inducible factor 1, alpha subunit, hypoxia- inducible factor 1, alpha subunit (basic helix-loop-helix transcrintion factor)	Mus musculus inhibitory PAS domain protein (Ipas) mRNA, complete cds, hypoxia inducible factor 1, alpha subunit, hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor), neuronal PAS domain protein 1, single-minded 1 single-minded hymology 1, foresophila)
0017	l	MINI_UZ+303	1,7 4	tialiscuplicul factor)	וו, אוואופייוווווספט ב, אוואופיידוווווספט ווטוווסטט ו (בוסטטווווא)

TABLE 3	3	A Company	明を	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	月 (根) (2) (2) (3) (Atty:Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			HT addition of an analysis of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
<u></u>	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Ivame	indinian nomologous sequence choster me
					expressed sequence C81413, immunoglobulin (CD79A) binding protein 1,
2302		21772 NM_031624	y, z	immunoglobulin (CD79A) binding protein 1	Immunoglobulin (CD/9A) binding protein 1b
1927		1427 NM_017063	hh	importin beta, karyopherin (importin) beta 1	Importin beta, karyopherin (importin) beta 1, karyopherin (importin) beta 3
			b, j, k, s, t,	inhibitor of DNA binding 1, inhibitor of DNA binding 1,	
1800		10248 NM_012797	u, jj, kk	dominant negative helix-loop-helix protein	
				inhibitor of DNA binding 3, inhibitor of DNA binding 3,	
1857		15253 NM_013058	n, o, s, t	dominant negative helix-loop-helix protein	
					ESTS. Highly similar to IP3R MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING
·					PROTEIN TYPE 1 RECEPTOR [M.musculus], ESTs, Moderately similar to IP3R
					MOUSE INOSITOL 1,4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1
					RECEPTOR (M.musculus), ESTs, Weakly similar to IP3R MOUSE INOSITOL 1,4,5-
					TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], inositol
					1,4,5-triphosphate receptor 1, inositol 1,4,5-triphosphate receptor 2, inositol 1,4,5-
				inositol 1,4,5-triphosphate receptor 2, inositol 1,4,5-	triphosphate receptor 5, inositol 1,4,5-triphosphate receptor, type 2, ryanodine
2223	•	18188 NM_031046	00	triphosphate receptor, type 2	receptor 2 (cardiac), ryanodine receptor 2, cardiac, ryanodine receptor 3
	l				ESTs, Moderately similar to A Chain A, Inositol Monophosphatase [H.sapiens],
					RIKEN cDNA 2900059K10 gene, inositol(myo)-1(or 4)-monophosphatase 1,
260		23336 AA859981	ee, ff. jj. kk	ee, ff, ji, kk   inositol(myo)-1(or 4)-monophosphatase 2	inositol(myo)-1(or 4)-monophosphatase 2
					EST, Highly similar to 1G1R_MOUSE INSULIN-LIKE GROWTH FACTOR I
					RECEPTOR PRECURSOR [M.musculus], EST, Moderately similar to
		·			IG1R_MOUSE INSULIN-LIKE GROWTH FACTOR I RECEPTOR PRECURSOR
					[M.musculus], ESTs, Highly similar to IG1R_MOUSE INSULIN-LIKE GROWTH
				insulin-like growth factor 1 receptor, insulin-like growth	FACTOR I RECEPTOR PRECURSOR [M.musculus], insulin receptor-related
2363		25072 NM_052807	- <u></u>	factor I receptor	receptor, insulin-like growth factor 1 receptor, insulin-like growth factor I receptor
1754	l	NM 012588	qq	insulin-like growth factor binding protein 3	insulin-like growth factor binding protein 3
	1				integrin beta 1 (fibronectin receptor beta), integrin beta 2, integrin beta 7, integrin,
				integrin beta 1 (fibronectin receptor beta), integrin, beta 1	integrin beta 1 (fibronectin receptor beta), integrin, beta 1  beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2,
				(fibronectin receptor, beta polypeptide, antigen CD29	MSK12), integrin, beta 2 (antigen CD18 (p95), lymphocyte function-associated
1356		14989 AI177366	f, g, l, m, kk includes	includes MDF2, MSK12)	antigen 1; macrophage antigen 1 (mac-1) beta subunit), integrin, beta 7

TABLE 3	3	(ii)	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		STREET, TO SOOT MODAL FLOTING. THE STREET STREET STREET STREET
SEO	1.1	Bank Aco			ilion
으	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				;	ESTs, Weakly similar to ICA1_HUMAN INTERCELLULAR ADHESION MOLECULE-1 PRECURSOR [H.sapiens], intercellular adhesion
1835		2555 NM_012967	a, y, z, kk	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	molecule 1 (CD54), human rhinovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 5,
2017		20318 NM_019127	u' 0	Interferon beta, fibroblast, interferon, beta 1, fibroblast	interferon beta, fibroblast, interferon, beta 1. fibroblast
					ESTs, Weakly similar to IFR1_RAT INTERFERON-RELATED DEVELOPMENTAL
			, ,		REGULATOR 1 (NERVE GROWTH FACTOR-INDUCIBLE PROTEIN PC4) (IRPR)
2044	- 1	17908 NM_019242	a, p, ч, y, 2, bb, ee, ff	interferon-related developmental regulator 1	[K.norvegicus], interferon-related developmental regulator 1, interferon-related developmental requlator 2
2516		657 NM_133380	j, k, y, z	interleukin 4 receptor, interleukin 4 receptor, alpha	colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte-macrophage), interleukin 4 recentor interleukin 4 recentor alpha
1914		6598 NM_017020	*		interleukin Branantor
1755		24716 NM_012589	j, k, p, q		
2158		OCO MIM COC	_	iron responsive element binding protein 2, iron-	
3		MINI_UZZ003	11,1	responsive element binding protein 2	
					ESTS, Highly similar to IDHC_RAT ISOCITRATE DEHYDROGENASE [NADP] CYTOPLASMIC (OXALOSUCCINATE DECARBOXYLASE) (IDH) (NADP+-
	-				SPECIFIC ICDH) (IDP) [R.norvegicus], expressed sequence AI788952, isocitrate
2275	17427	17427 NM_031510	b, u, v	isocitrate dehydrogenase 1 (NADP+), soluble	dehydrogenase 1 (NADP+), soluble, isocitrate dehydrogenase 2 (NADP+), mitochondrial
					ESTs, Moderately similar to IVD_HUMAN ISOVALERYL-COA DEHYDROGENASE,
1756	4450	4450 NM_012592	ပ	A dehydrogenase	MI I OCHONDRIAL PRECURSOR (H.sapiens), isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydronenase
					ESTs, Weakly similar to JC4127 protein-tyrosine kinase (EC 2.7.1.112) - rat
	71				[R.norvegicus], Janus kinase 1, Janus kinase 1 (a protein tyrosine kinase), Janus
2276	12580	12580 NM 031514	4 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Janus Kinase Z, Janus Kinase Z (a protein tyrosine	kinase 2, Janus kinase 2 (a protein tyrosine kinase), expressed sequence
	2007	t10100-			Al504024, expressed sequence C81284, tyrosine kinase 2
				<u></u>	ES1s, Weakly similar to JC4127 protein-tyrosine kinase (EC 2.7.1.112) - rat
				ا ا ا ا الله الله الله الله الله الله ال	[In. No. Vegicus], Janus Kinase 1, Janus Kinase 1 (a protein tyrosine kinase), Janus
2276	12581	12581 NM_031514	y, z, hh		nitiase 4, Jailus Kiitase 2 (a protein tyrosine kinase), expressed sequence Al504024, expressed sequence C81284, tvrosine kinase 2

TABLE 3	3	,		A CONTRACT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	Alty Ref 44921-5090-01-WO/2405485
SEO O	GLGC ID No.	GenBank Acc. No.	Model Code Human I	Human Homologous Known Gene Name	Homologous Seguence Cluster Title
					ESTs, Highly similar to jumping translocation breakpoint [Rattus norvegicus] IR.norvegicus]. ESTs. Moderately similar to jumping translocation breakpoint
2038		2632 NM_019213	cc, dd	jumping translocation breakpoint	[Rattus norvegicus] [R.norvegicus], jumping translocation breakpoint
2089		22351 NM_021835	ee' #	Jun oncogene, v-jun sarcoma virus 17 oncogene homolog (avian)	Jun oncogene, v-iun sarcoma virus 17 oncogene homolog (avian)
				ession of tumorigenicity 6, prostate),	
				kangai 1 (suppression of tumorigenicity 6, prostate, CD82	(suppression of tumorigenicity 6, prostate; CD82 kangai 1 (suppression of tumorigenicity 6, prostate), kangai 1 (suppression of
				antigen detected by	tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by
2330		15864 NM_031797	<u>.</u>	ody (A4))	monoclonal and antibody (A4)), tetraspan 1
2390		14380 NM_053536	e, y, z	Kruppel-like factor 15	
				Krinnel.like factor 0 basic franscrintion element hindion	ESTs, Moderately similar to Kruppel-like factor 9 [Rattus norvegicus]
2489		8641 NM 057211	pp		print regional, in apperture factor 3, basic transcription element billioning protein 1, expressed sequence AL022736
				lactate dehydrogenase 1, A chain, lactate dehydrogenase	lactate dehydrogenase 1, A chain, lactate dehydrogenase lactate dehydrogenase 1, A chain, lactate dehydrogenase A, lactate dehydrogenase
1915		17807 NM_017025	h, i	А	A -like, lactate dehydrogenase C
				state dehydrogenase 2, B chain, lactate dehydrogenase	
1757	7125	7125 NM_012595	aa, bb	В	lactate dehydrogenase 2, B chain, lactate dehydrogenase B
873	20086	20086 AI013260	2	lamin A, lamin A/C	
					EST, Weakly similar to 1405340A protein 40kD [M.musculus], EST, Weakly similar
			_		to RSP4 MOUSE 40S RIBOSOMAL PROTEIN SA [M.musculus], ESTs, Highly
					similar to A31233 ribosomal protein RS.40K, cytosolic [H.sapiens], ESTs,
					Moderately similar to laminin-binding protein [H.sapiens], expressed sequence
1949	24885	24885 NM_017138	h, I, w, x	laminin receptor 1 (67kD, ribosomal protein SA)	AL022858, laminin receptor 1 (67kD, ribosomal protein SA)
					EST, Weakly similar to 1405340A protein 40kD [M.musculus], EST, Weakly similar
					to RSP4 MOUSE 40S RIBOSOMAL PROTEIN SA [M.musculus], ESTs, Highly
					similar to A31233 ribosomal protein RS.40K, cytosolic [H.sapiens], ESTs,
					Moderately similar to laminin-binding protein [H.sapiens], expressed sequence
1949	24886	24886 NM_017138	h, l, w, x	laminin receptor 1 (67kD, ribosomal protein SA)	AL022858, laminin receptor 1 (67kD, ribosomal protein SA)
					ESTs, Weakly similar to LMB2_HUMAN LAMININ BETA-2 CHAIN PRECURSOR
	-"				[H.sapiens], Rattus norvegicus laminin-5 alpha 3 chain mRNA, complete cds,
					expressed sequence AW211941, expressed sequence C80098, hypothetical protein
				-	BC018697, laminin B1 subunit 1, laminin, beta 1, laminin, beta 2, laminin, beta 2
1836	- 1	22434 NM_012974	m, m	laminin, beta 2, laminin, beta 2 (laminin S)	(laminin S), laminin, beta 4

TABLE 3		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Listers Const. 15090-01-WO/2405485
SEO		GenBank Acc.			1
<u>Q</u>	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Weakly similar to LMB2_HUMAN LAMININ BETA-2 CHAIN PRECURSOR
					[H.sapiens], Rattus norvegicus laminin-5 alpha 3 chain mRNA, complete cds,
					expressed sequence AW211941, expressed sequence C80098, hypothetical protein
					BC018697, Iaminin B1 subunit 1, Iaminin, beta 1, Iaminin, beta 2, Iaminin, beta 2
1836	1	22435 NM_012974	O	laminin, beta 2, laminin, beta 2 (laminin S)	(laminin S), laminin, beta 4
			a, h, l, n, o,	lectin, galactose binding, soluble 3, lectin, galactoside-	EST, Weakly similar to A35820 galectin 3 [H.sapiens], galectin-related inter-fiber
2335		22321 NM_031832	×, <del>K</del>	binding, soluble, 3 (galectin 3)	protein, lectin, galactoside-binding, soluble, 3 (galectin 3)
602	- (	AA945172	Ф	leucine aminopeptidase 3	aminopeptidase-like 1, leucine aminopeptidase 3
			_		LIM and senescent cell antigen-like domains 1, LIM and senescent cell antigen-like
	•				domains 1-like, LIM protein (similar to rat protein kinase C-binding enigma), RIKEN
				LIM protein (similar to rat protein kinase C-binding	cDNA 1110003B01 gene, enigma (LIM domain protein), enigma homolog (R.
2369		7207 NM_053326	둗	enigma), enigma homolog (R. norvegicus)	norvegicus), leupaxin
					ESTs, Weakly similar to cholesterol esterase (pancreatic), see D3Wox12,
				lipase A, Iysosomal acid, cholesterol esterase (Wolman	D3Wox13, D3Wox26 and D3Mgh25 [Rattus norvegicus] [R.norvegicus], lipase A,
1781	25563	25563 NM_012732	f, g	disease), lysosomal acid lipase 1	lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1
					ESTs, Weakly similar to cholesterol esterase (pancreatic), see D3Wox12,
				lipase A, lysosomal acid, cholesterol esterase (Wolman	D3Wox13, D3Wox26 and D3Mgh25 [Rattus norvegicus] [R.norvegicus], lipase A,
1781	16613	16613 NM_012732	g	disease), lysosomal acid lipase 1	lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1
					ESTs, Highly similar to JH0790 lipoprotein lipase (EC 3.1.1.34) precursor - rat
1758		18387 NM_012598	w, x	lipoprofein lipase	[R.norvegicus], lipase, endothelial, lipoprotein lipase
					ESTs, Highly similar to JH0790 lipoprotein lipase (EC 3.1.1.34) precursor - rat
1758	183861	18386 NM_012598	w, x	lipoprotein lipase	[R.norvegicus], Lipoprotein lipase, lipase, endothelial, lipoprotein lipase
				LIS1-interacting protein NUDE1, rat homolog, nuclear	
2375		9352 NM_053347	u, v	distribution gene E homolog (Aspergillus)	
217	21713,	21713 AA851637	е, г	Lutheran blood group (Auberger b antigen included)	Lutheran blood group (Auberger b antigen included)
					CD68 antigen, ESTs, Weakly similar to LMP1_RAT LYSOSOME-ASSOCIATED
					MEMBRANE GLYCOPROTEIN 1 PRECURSOR (LAMP-1) (120 KD LYSOSOMAL
					IMEMBRANE GLYCOPROTEIN) (LGP-120) (CD10/A) [K.norvegicus], chromosome
1808		18770 MM 019857	7	lysosomai membrane glycoprotein 1, lysosomai-	20 open reading frame 103, lysosomal membrane glycoprotein 1, lysosomal-
000	-	ININ DIESON	1311	associated intellibrated protein i	jassocialed memorane protein 1, lysosomal-associated memorane protein 3

TABLE 3	3	. '', !si	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Attw. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc:			
<u>∩</u>	GLGC ID No.	No.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1928		6653 NM 017068	7	lysosomal membrane glycoprotein 2, lysosomal-	CD68 antigen, ESTs, Weakly similar to JC4317 lysosome-associated membrane protein 2 precursor, splice form B [H.sapiens], lysosomal membrane glycoprotein 2,
2		200110	,	מסססימיכת ווכווים מופ לו ספון ד	CD68 antigen, ESTs. Weakly similar to JC4317 lysosome-associated membrane
				lysosomal membrane glycoprotein 2, lysosomal-	protein 2 precursor, splice form B [H.sapiens], lysosomal membrane glycoprotein 2,
1928		6654 NM_017068	b, v	associated membrane protein 2	lysosomal-associated membrane protein 2
					acetylmuramidase C) [R.norvegicus], RIKEN cDNA 9530003J23 gene, Iysozyme, Ikozywne (rene) amyloidoeis) einijar to Ivozywne (141 beto N. ocyhmuramidae)
410	1	12118 AA892775	a, n, x	lysozyme, lysozyme (renal amyloidosis)	googy in the distribution of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
					ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similar to LYOX_RAT Protein-Jysine 6-
					oxidase precursor (Lysyl oxidase) [R.norvegicus], ESTs, Weakly similar to
1926		1942 NM_017061	f,	lysyl oxidase	LYOX_KAI Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 2
					EST Moderatoly cimilar to 1 VOV I at animic violence of the TOA ONLY AND TO A TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TOWN TO SHEET IN TOWN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TO SHEET IN TOWN TOWN TOWN TO SHEET IN TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOW
					PRECURSOR (H sanient) ESTs Moderately similar to 1 VOX BAT Protein-lysine 6
					oxidase precursor (Lysyl oxidase) [R. norvegicus]. ESTs. Weakly similar to
					LYOX_RAT Protein-lysine 6-oxidase precursor (Lysyl oxidase) [R.norvegicus], lysyl
1926		1943 NM_017061	s, t	lysyl oxidase	oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2
				MAD homolog 2 (Drosophila), MAD, mothers against	MAD homolog 2 (Drosophila), MAD, mothers against decapentaplegic homolog 2
2033	-	15244 NM_019191	_	decapentaplegic homolog 2 (Drosophila)	(Drosophila)
					EST, Weakly similar to MGP_HUMAN MATRIX GLA-PROTEIN PRECURSOR
					[H.sapiens], ESTs, Highly similar to MGP_HUMAN MATRIX GLA-PROTEIN
				<u>0</u>	protein, matrix gamma-carboxyglutamate (gla)   PRECURSOR [H.sapiens], matrix Gla protein, matrix gamma-carboxyglutamate
1809	- [	13151 NM_012862	n, o, II	protein	(gla) protein

TABLE	3				288-28-28-28-28-28-28-28-28-28-28-28-28-
SEQ ID	CI CI	GenBank Acc.	Model Code	Model Code Human Homologgiis Known Gene Name	oli TretariO ecuero
1					ו ימיומי ויסיוסטטטטט ספקעפורס סיומינים
					EST, Weakly similar to MCM5_HUMAN DNA REPLICATION LICENSING FACTOR MCM5 [H.saplens], ESTs, Weakly similar to MCM6_HUMAN DNA REPLICATION LICENSING FACTOR MCM6 [H.saplens], MCM2 minichromosome maintenance deficient 2, mitotin (S. cerevisiae), MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae), mini chromosome maintenance deficient
				MCM6 minichromosome maintenance deficient 6 (MIS5 homolon S, nombe) (S, cerevisiae), mini chromosome	2 (S. cerevisiae), mini chromosome maintenance deficient 5 (S. cerevisiae), mini
2615		16675 U17565	:= :=	maintenance deficient 6 (S. cerevisiae)	maintenance deficient 7 (S. cerevisiae)
2675	25737 X70667	X70667	l, m	melanocortin 3 receptor	
					RIKEN cDNA 1700056A17 gene, RIKEN cDNA 1700080O16 gene, RIKEN cDNA 2410003J06 gene, RIKEN cDNA 3830417A13 gene, melanoma antigen, family D,
344	19321	19321 AA891666	cc, dd	melanoma antigen, family D, 1	1, melanoma antigen, family L, 2
					RIKEN cDNA 2010107K23 gene, RIKEN cDNA 5730494G16 gene, general
2494	2541	2541 NM_080479	aa, bb	melanoma antigen, family D, 2	transcription factor II H, polypeptide 1 (62kD subunit), melanoma antigen, family B, 3, melanoma antigen, family D, 2, melanoma antigen, family E, 1
1877	5837	5837 NM 013143	cc. dd	meprin 1 alpha, meprin A, alpha (PABA peptide hydrolase)	expressed sequence AI098089, meprin 1 alpha, meprin A, alpha (PABA peptide
				mesenchyme homeo box 2 (growth arrest-specific homeo	mesenchyme homeo box 2 (growth arrest-specific homeo box A11, mesenchyme homeo box 1, mesenchyme homeo box 2 (growth
1954	17287	17287 NM_017149	:==	box), mesenchyme homeobox 2	arrest-specific homeo box), mesenchyme homeobox 1, mesenchyme homeobox 2
			i. k. v. z. ee.	-	EST, Moderately similar to Cd-7 Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Moderately similar to MT1 RAT METALLOTHIONEIN-1 (MT-1) (R nonvenious), metallothionein 1
2550	15189	15189 NM_138826	ff, kk	metallothionein 1, metallothionein 1A (functional)	metallothionein 4, metallothionein IV
					EST, Moderately similar to Cd-7 Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Moderately similar to
2550	1	15190 NM_138826	j, k, y, z, ii	metallothionein 1, metallothionein 1A (functional)	M11_KA1 ME1ALLUTHONEIN-I (M1-I) [K.norvegicus], metallothionein 1, metallothionein 4, metallothionein IV

TABLE 3	8				LE SE SE SE SE SE SE SE SE SE SE SE SE SE
SEQ ()	GLGC ID No.	GenBank Acc. No.		Homologous Kr	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to metastasis associated 1 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to metastasis associated 1 [Rattus norvegicus] [R.norvegicus], KIAA1266 protein, KIAA1610 protein, metastasis associated 1, metastasis associated 1-1-
2142	20762 N	20762 NM_022588	r, s, t	metastasis associated 1	like 1
19/0	13938 N	13938 NM_01/212	, ĸ	microtubule-associated protein tau	
1970	13940 N	13940 NM_017212	ъ	microtubule-associated protein tau	
2510	17564 N	17564 NM_133283	ri.	mitogen activated protein kinase kinase 2, mitogen- activated protein kinase kinase 2	
2300	14957 NI	14957 NM_031622	ч	mitogen-activated protein kinase 6	ESTs, Weakly similar to B40033 protein kinase (EC 2.7.1.37) ERK3 - rat [R.norvegicus], mitogen-activated protein kinase 6.
				-	ESTS, Highly similar to M3K3 MOUSE MITOGEN-ACTIVATED PROTEIN KINASE
					KINASE KINASE 3 [M.musculus], ESTs, Moderately similar to S12207 hypothetical protein [M.musculus], ESTs, Weakly similar to M3K3_HUMAN MITOGEN-
					ACTIVATED PROTEIN KINASE KINASE KINASE 3 [H.sapiens], hypothetical
					protein FLJ23074, mitogen activated protein kinase kinase kinase 1, mitogen
					activated protein kinase kinase 2, mitogen activated protein kinase kinase
536	16499 AA925300	4925300	p, ee, ff, gg	mitogen-activated protein kinase kinase 3	kinase 3, mitogen-activated protein kinase kinase kinase 2, mitogen-activated protein kinase kinase kinase 3
2156	28 NI	58 NM_022715	u, v	Mitral valve prolapse, familial, major vault protein	
2036	21508 NI	21508 NM_019208	<u> </u>	multiple endocrine neoplasia 1, multiple endocrine neoplasia I	multiple endocrine neoplasia 1. multiple endocrine neoplasia l
				multiple inositol polyphosphate histidine phosphatase 1,	
1152	15291 AI111401	111401	hh	multiple inositol polyphosphate histidine phosphatase, 1	
					ESTs, Highly similar to multiple PDZ domain protein [Mus musculus] [M.musculus], ESTs, Weakly similar to T30259 multiple PDZ domain protein - mouse
					[M.musculus], ESTs, Weakly similar to T46612 multi PDZ domain protein 1 - rat
					[K.norvegicus], Homo sapiens CDNA FLJ25282 its, clone STM06688, highly similar fo Rattus norvenicus mRNA for multi PDZ domain protein. RIKEN CDNA
	7070	0000			2810455B10 gene, channel-interacting PDZ domain protein, multiple PDZ domain
4502	N 17417	21421 MM 019196	-	multiple PDZ domain protein	protein
7300	17448IN	17446 NIVI_US1008	lu', l	IMYB binding protein (P16U) 1a	

TABLE 3	33			で、 の に に に に に に に に に に に に に	All RAFA AGON, SHOW NAME AND RAFA AGON, SHOOP NAME OF STATES
SEO		GenBank Acc.			
۵	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1759		2628 NM_012603	a, p, q, y, z	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)
				in the method of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract	
1759		2629 NM_012603	Y, 2, dd, 11, KK	inyelocytomatosis oncogene, v-myc myelocytomatosis iviral oncogene homolog (avian)	myelocytomatosis oncogene, v-myc myelocytomatosis viral oncogene homolog (avian)
					EST, Weakly similar to MYH6_RAT Myosin heavy chain, cardiac muscle alpha
	٠	•			isoform (MyHC-alpha) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY
	-	_			CHAIN, CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar
					to MYSA_HUMAN MYOSIN HEAVY CHAIN, CARDIAC MUSCLE ALPHA
				myosin heavy chain, cardiac muscle, adult, myosin,	ISOFORM [H.sapiens], KIAA1000 protein, myosin heavy chain, cardiac muscle,
				heavy polypeptide 6, cardiac muscle, alpha	adult, myosin, heavy polypeptide 2, skeletal muscle, adult, myosin, heavy
1978		1498 NM_017239	ס	(cardiomyopathy, hypertrophic 1)	polypeptide 4, skeletal muscle, myosin, heavy polypeptide 7, cardiac muscle, beta
					ES1, Highly similar to MYH/_KA1 Myosin heavy chain, cardiac muscle beta isotorm
					(MyHC-beta) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY CHAIN,
					CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar to
					MYHB_MOUSE MYOSIN HEAVY CHAIN, SMOOTH MUSCLE ISOFORM
					(SMMHC) [M.musculus], ESTs, Weakly similar to PCNT MOUSE PERICENTRIN
				myosin heavy chain, cardiac muscle, adult, myosin,	[M.musculus], RIKEN cDNA 4932408L24 gene, myosin heavy chain, cardiac
				heavy polypeptide 6, cardiac muscle, alpha	muscle, adult, myosin heavy chain-like, myosin, heavy polypeptide 2, skeletal
				(cardiomyopathy, hypertrophic 1), myosin, heavy	muscle, adult, myosin, heavy polypeptide 4, skeletal muscle, myosin, heavy
1979	-	20482 NM_017240	c, g	polypeptide 7, cardiac muscle, beta	polypeptide 7, cardiac muscle, beta
					ES I, Highly similar to MYH/_KAT Myosin heavy chain, cardiac muscle beta isotorm
					(MyHC-beta) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY CHAIN,
					CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar to
	-				MYHB_MOUSE MYOSIN HEAVY CHAIN, SMOOTH MUSCLE ISOFORM
					(SMMHC) [M.musculus], ESTs, Weakly similar to PCNT MOUSE PERICENTRIN
				myosin heavy chain, cardiac muscle, adult, myosin,	[M.musculus], RIKEN cDNA 4932408L24 gene, myosin heavy chain, cardiac
-				heavy polypeptide 6, cardiac muscle, alpha	muscle, adult, myosin heavy chain-like, myosin, heavy polypeptide 2, skeletal
1979		20483 NM 017240		(cardiomyopathy, hypertrophic 1), myosin, heavy	muscle, adult, myosin, heavy polypeptide 4, skeletal muscle, myosin, heavy
2		014 2 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		polypopude 1, caldiac illusois, Dela	polypepitde 7, cardiac muscle, beta

TABLE 3		A POST TO THE SECOND OF THE SECOND OF THE	FARTER PLANE		Attv. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			
₽	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
·	<u>.</u>				EST, Highly similar to MYH/_RAT Myosin heavy chain, cardiac muscle beta isotorm (MyHC-beta) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY CHAIN,
					CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar to
					MYHB_MOUSE MYOSIN HEAVY CHAIN, SMOOTH MUSCLE ISOFORM
					(SMMHC) [M.musculus], ESTs, Weakly similar to PCNT MOUSE PERICENTRIN
				myosin heavy chain, cardiac muscle, adult, myosin,	[M.musculus], RIKEN cDNA 4932408L24 gene, myosin heavy chain, cardiac
				heavy polypeptide 6, cardiac muscle, alpha	muscle, adult, myosin heavy chain-like, myosin, heavy polypeptide 2, skeletal
				(cardiomyopathy, hypertrophic 1), myosin, heavy	muscle, adult, myosin, heavy polypeptide 4, skeletal muscle, myosin, heavy
1979		20484 NM_017240	ө	polypeptide 7, cardiac muscle, beta	polypeptide 7, cardiac muscle, beta
					EST, Weakly similar to MYH6_RAT Myosin heavy chain, cardiac muscle alpha
					isoform (MyHC-alpha) [R.norvegicus], ESTs, Moderately similar to MYOSIN HEAVY
					CHAIN, CARDIAC MUSCLE ALPHA ISOFORM [M.musculus], ESTs, Weakly similar
				myosin heavy chain, cardiac muscle, adult, myosin,	to MYSA_HUMAN MYOSIN HEAVY CHAIN, CARDIAC MUSCLE ALPHA
	1			heavy polypeptide 6, cardiac muscle, alpha	ISOFORM [H.sapiens], KIAA1000 protein, myosin heavy chain, cardiac muscle,
				(cardiomyopathy, hypertrophic 1), myosin, heavy	adult, myosin, heavy polypeptide 2, skeletal muscle, adult, myosin, heavy
1978		1497 NM_017239	q	polypeptide 7, cardiac muscle, beta	polypeptide 4, skeletal muscle, myosin, heavy polypeptide 7, cardiac muscle, beta
					EST, Highly similar to MY14_RAT Myosin IA (Myosin I alpha) (MMI-alpha) (MMI)
	-				(Myosin heavy chain myr 1) [R.norvegicus], EST, Weakly similar to MYOSIN I
			<del></del>		ALPHA [M.musculus], Mus musculus adult male small intestine cDNA, RIKEN full-
					length enriched library, clone:2010010B23:myosin, heavy polypeptide-like (110kD),
2463	176531	17653 NM_053986	cc, dd	myosin IB	full insert sequence, myosin IB
					Mus musculus 8 days embryo whole body cDNA, RIKEN full-length enriched library,
					clone:5730519L10:myristoylated alanine rich protein kinase C substrate, full insert
				myristoylated alanine rich protein kinase C substrate,	sequence, myristoylated alanine rich protein kinase C substrate, myristoylated
470	24329	24329 AA899253	aa, bb	myristoylated alanine-rich protein kinase C substrate	alanine-rich protein kinase C substrate
				NADH dehydrogenase (ubiquinone) Fe-S protein 6	ESTs, Highly similar to NUMM MOUSE NADH-UBIQUINONE OXIDOREDUCTASE
				(13kD) (NADH-coenzyme Q reductase), NADH	13 KD-A SUBUNIT [M.musculus], NADH dehydrogenase (ubiquinone) Fe-S protein
2041	20938	20938 NM_019223	듄	dehydrogenase Fe-S protein 6	6 (13kD) (NADH-coenzyme Q reductase)
					EST, Moderately similar to ANFB MOUSE BRAIN NATRIURETIC PEPTIDE
2000		10200 NIM 024E4E	# 	natriuretic peptide precursor B, natriuretic peptide	PRECURSOR [M.musculus], natriuretic peptide precursor B, natriuretic peptide
7077	1	NIVI_US 1343	a, u, y, ee, iijpiecuisoi	precursor type D	precursor type b

TABLE	≣3		44	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	Atty Ref A4091.5000.01.MIO/2105485
SEO		GenBank Acc.			351
Ω.	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Weakly similar to ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR [M.musculus], Mus musculus, Similar to natriuretic peptide receptor close IMAGE: 5652334 mPNA portional and protections in activities in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
				natriuretic peptide receptor 1, natriuretic peptide receptor	atriuretic peptide receptor 1, natriuretic peptide receptor   atriuretic peptide receptor // natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor   natriuretic peptide receptor
1762		638 NM_012613	aa, bb	A/guanylate cyclase A (atrionatriuretic peptide receptor A) A)	(A)
					Mus musculus, clone IMAGE:5097359, mRNA, partial cds, nerve growth factor
				nerve growth factor receptor, nerve growth factor	receptor, nerve growth factor receptor (TNFR superfamily, member 16), p75-like
1761		1298 NM_012610	8	receptor (TNFR superfamily, member 16)	apoptosis-inducing death domain protein PLAIDD
					Mus musculus, clone IMAGE:5097359, mRNA, partial cds, nerve growth factor
4764		NIM 040640	_	nerve growth factor receptor, nerve growth factor	receptor, nerve growth factor receptor (TNFR superfamily, member 16), p75-like
	-1	010710 NINI 6571	B	receptor (TINFK Superramily, member 16)	apoptosis-inducing death domain protein PLAIDD
1945	- 1	NM_017130	u, v	neuraminidase 2, sialidase 2 (cytosolic sialidase)	neuraminidase 2, sialidase 2 (cytosolic sialidase)
					ESTs, Highly similar to C40228 neurexin II-alpha precursor - rat [R.norvegicus],
					ESTs, Moderately similar to NX1A_MOUSE_2 [Segment 2 of 2] Neurexin 1-alpha
-					(Neurexin I-alpha) (Fragments) [M.musculus], ESTs, Weakly similar to
					NX1A_MOUSE_1 [Segment 1 of 2] Neurexin 1-alpha (Neurexin I-alpha)
					(Fragments) [M.musculus], RIKEN cDNA 4933401A11 gene, chondroitin sulfate
2441		1780 NM_053846		neurexin 2, neurexin II	proteoglycan 4
2298		19022 NM_031609	s, t, jj, kk	n of tumorigenicity 1	dante, neuroblastoma, suppression of tumorigenicity 1
2038		20450 NM_022239	b, l, m, u, v	euromedin U	neuromedin, neuromedin U
1763	H	24506 NM_012614		neuropeptide Y	RIKEN cDNA 0710005A05 gene, neuropeptide Y
2047		24849 NM_019248	aa, bb	neurotrophic tyrosine kinase, receptor, type 3	neurotrophic tyrosine kinase, receptor, type 3
2629		1715 U72660	a, jj, kk	ninjurin 1	ninjurin 1, ninjurin 2
					ESTs, Moderately similar to A Chain A, Human Endothelial Nitric Oxide Synthase
					With Arginine Substrate (SUB 66-492 [H.sapiens], Homo sapiens cDNA FLJ14885
				e synthase 3 (endothelial cell), nitric oxide	fis, clone PLACE1003711, nitric oxide synthase 3 (endothelial cell), nitric oxide
1649	-	20127 AJ011116	j, k, n, o	synthase 3, endothelial cell	synthase 3, endothelial cell
•					nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X, nuclear
1840		/64/NM_U12988	ee, tt	nuclear factor I/A	factor I/X (CCAAT-binding transcription factor)
77.0		70000		ı	Nuclear Factor IA, nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear
(45		17303 ABU 12231	JJ, KK	nuclear factor I/B	factor I/X, nuclear factor I/X (CCAAT-binding transcription factor)
1331		24763 AI176488	 ₹	nuclear factor //B	Nuclear Factor IA, nuclear factor I/A, nuclear factor I/B, nuclear factor I/C, nuclear factor I/X nuclear factor I/X (CCAAT-binding transcription factor)
					ייייין וייייין וייייין וייייין ויייין (סליסין פון פון פון פון פון פון פון פון פון

TABLE 3	~	\$4000 A		新聞の できる からい からい できません できない からい からない からない からない からない からない からない からな	10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000
SEQ		GenBank Acc.			
۵	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				Inuclear factor of kappa light chain gene enhancer in B-	
				cells inhibitor, alpha, nuclear factor of kappa light	
2670		25090 X63594	j, k	polypeptide gene enhancer in B-cells inhibitor, alpha	
2058		24674 NM_019328	 X	nuclear receptor subfamily 4, group A, member 2	nuclear receptor subfamily 4, group A, member 2
2303		567 NM_031628	b'd	nuclear receptor subfamily 4, group A, member 3	nuclear receptor subfamily 4, group A, member 3
				nuclear RNA export factor 1, nuclear RNA export factor 1	
755		18731 AF093139	q	homolog (S. cerevisiae)	
				nuclear transcription factor Y, gamma, nuclear	
299		4339 AA875121	<u>≔</u> ₹	transcription factor-Y gamma	
				nuclear transcription factor Y, gamma, nuclear	
1810	-	4338 NM_012866	u, v	transcription factor-Y gamma	
				nucleophosmin (nucleolar phosphoprotein B23,	
1841		17394 NM_012992	hh, kk	numatrin), nucleophosmin 1	ESTs, Highly similar to A32915 nucleophosmin [H.sapiens], nucleophosmin 1
					ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus],
					ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET
					translocation, SET translocation (myeloid leukemia-associated), nucleosome
752		16006 AF062594	<u> </u>	nucleosome assembly protein 1-like 1	assembly protein 1-like 1
					ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus],
					ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET
					translocation, SET translocation (myeloid leukemia-associated), nucleosome
752		16007 AF062594	둗	nucleosome assembly protein 1-like 1	assembly protein 1-like 1
					ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus],
					ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET
					translocation, SET translocation (myeloid leukemia-associated), nucleosome
926		7665 A1030668	æ	nucleosome assembly protein 1-like 1	assembly protein 1-like 1
				ornithine carbamoyltransferase, ornithine	
1862		13283 NM_013078	ڡ	transcarbamylase	ornithine carbamoyltransferase, ornithine transcarbamylase
					ESTs, Weakly similar to ODCI_MOUSE Ornithine decarboxylase antizyme inhibitor
2141		21062 NM_022585	99	ornithine decarboxylase antizyme inhibitor	[M.musculus], ornithine decarboxylase antizyme inhibitor
					ESTs, Weakly similar to ODCL_MOUSE Ornithine decarboxylase antizyme inhibitor
2141		21063NM_022585	f, y, z	ornithine decarboxylase antizyme inhibitor	[M.musculus], ornithine decarboxylase antizyme inhibitor
2333		15840 NM_031817	h, i	osteomodulin	losteoglycin, osteomodulin

TABLE 3	3	Stee	The second of the second		Attv. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			
₽	GLGC ID No.	No.	Model Code	Model Code Humān Homologous Known Gene Name	Human Homologous Sequence Cluster Title
			•		ESTs, Weakly similar to JE0111 lectin-like oxidized LDL receptor - mouse [M.musculus], Mus musculus NKRP1F mRNA, complete cds, killer cell lectin-like
					receptor subfamily B member 1A, killer cell fectin-like receptor subfamily B member
					1B, killer cell lectin-like receptor subfamily B member 1C, killer cell lectin-like
				oxidised low density lipoprotein (lectin-like) receptor 1,	receptor subfamily B member 1D, oxidised low density lipoprotein (lectin-like)
2515	4318	4318 NM_133306	p, q	oxidized low density lipoprotein (lectin-like) receptor 1	receptor 1, oxidized low density lipoprotein (lectin-like) receptor 1
					ESTs, Moderately similar to NEU1 MOUSE OXYTOCIN-NEUROPHYSIN 1
1690	20549 K01701	K01701	р	oxytocin, oxytocin, prepro- (neurophysin I)	PRECURSOR [M.musculus], oxytocin, oxytocin, prepro- (neurophysin I)
2289	1918	1918 NM_031576	99	P450 (cytochrome) oxidoreductase	
2289	1920	1920 NM_031576	s	P450 (cytochrome) oxidoreductase	
2289	1921	1921 NM_031576	j, k, s, t	P450 (cytochrome) oxidoreductase	
					EST, Highly similar to 153282 gene PACE4 protein - rat [R.norvegicus], RIKEN
				paired basic amino acid cleaving system 4, proprotein	cDNA A930029K19 gene, paired basic amino acid cleaving system 4, proprotein
1843	24263	24263NM_012999	•	convertase subtilisin/kexin type 6	convertase subtilisin/kexin type 6
					EST, Highly similar to I53282 gene PACE4 protein - rat [R.norvegicus], RIKEN
				paired basic amino acid cleaving system 4, proprotein	cDNA A930029K19 gene, paired basic amino acid cleaving system 4, proprotein
1843	24264	24264 NM_012999	Б	convertase subtilisin/kexin type 6	convertase subtilisin/kexin type 6
					ESTs, Weakly similar to PIX3_RAT Pituitary homeobox 3 (Homeobox protein PTX3)
					[R.norvegicus], RIKEN cDNA 1600026001 gene, diencephalon/mesencephalon-
					expressed brain homeobox 1, newborn ovary homeobox gene, paired-like
2046	11218	11218 NM_019247	b, u, v	paired-like homeodomain transcription factor 3	homeodomain transcription factor 3
2066	188191	18819 NM_019367	l, m	palmitòyl-protein thioesterase 2	palmitoyi-protein thioesterase 2
2066	18820	18820 NM_019367	s, t	palmitoyl-protein thioesterase 2	palmitoyi-protein thioesterase 2
					EST, Moderately similar to CL36_HUMAN LIM DOMAIN PROTEIN CLP-36
					[H.sapiens], ESTs, Weakly similar to PDL1_RAT PDZ and LIM domain protein 1
	-				(LIM domain protein CLP-36) (C-terminal LIM domain protein 1) (Elfin)
					[R.norvegicus], Mus musculus, clone MGC:37634 IMAGE:4990983, mRNA,
					complete cds, PDZ and LIM domain 1 (elfin), PDZ and LIM domain 3, Rattus
					norvegious LIM-domain protein LMP-1 mRNA, complete cds, actinin alpha 2
2014	1581	1581 NM_017365	l, p, q, s, t	PDZ and LIM domain 1 (elfin)	associated LIM protein
1974	18148	18148 NM 017226	0.0	neptidyl arginine deiminase, type II	ESTs, Highly similar to PROTEIN-ARGININE DEIMINASE [M.musculus], peptidyl arnininase tyne II
			2 1 1		מאווווים ממווווויונים לי לאס וו

TABLE	3				Afty Ref 44921-5090-01-WO/2105485
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Q	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to PROTEIN-ARGININE DEIMINASE [M.musculus], peptidyl
1974		15108 NM_017226	n' ν	peptidyl arginine deiminase, type II	arginine deiminase, type II, ribosomal protein S18
					ES1, Moderately similar to A Chain A, Cyclophilin A [H.saptens], ES1s, Highly
					similar to CYPH MOUSE PEPTIDYL-PROLYL CIS-TRANS ISOMERASE A
					[M.musculus], ESTs, Moderately similar to A Chain A, Human Cyclophilin A
					Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to A Chain A,
					Oyclophilin A [H.sapiens], ESTs, Weakly similar to A Chain A, Human Cyclophilin A
					Complexed With 2-Thr Cyclosporin [H.sapiens], ESTs, Weakly similar to
					CYPH_RAT Peptidyl-prolyl cis-trans isomerase A (PPlase) (Rotamase) (Cyclophilin
					A) (Cyclosporin A-binding protein) (P31) [R.norvegicus], RIKEN cDNA 2510026K04
				peptidylprolyl isomerase A, peptidylprolyl isomerase A	gene, expressed sequence Al256741, expressed sequence AW457192,
1939		4391 NM_017101	s, t	(cyclophilin A)	peptidy/prolyl isomerase A
					EST, Weakly similar to period homolog 2 (Drosophila) [Rattus norvegicus]
					[R.norvegicus], ESTs, Highly similar to period homolog 2 (Drosophila) [Rattus
					norvegicus] [R.norvegicus], period homolog 1 (Drosophila), period homolog 2
2310	15041	15041 NM_031678	jj, Kk	period homolog 2 (Drosophila)	(Drosophila)
				peripheral myelin protein 22, peripheral myelin protein, 22	
1917	4500	4500 NM_017037	:=	кDа	peripheral myelin protein 22, peripheral myelin protein, 22 kDa
745	22567	22567 AB017544	aa	peroxisomal biogenesis factor 14	peroxisomal biogenesis factor 14
					EST, Weakly similar to persephin [Rattus norvegicus] [R.norvegicus], artemin,
1848	20178	20178 NM_013014	w, x	persephin	persephin
					ESTs, Weakly similar to PTEN MOUSE PROTEIN-TYROSINE PHOSPHATASE
					PTEN [M.musculus], Mus musculus mRNA for tyrosine phosphatase (Tpte gene),
					isoform A, splice variant A, phosphatase and tensin homolog, phosphatase and
				phosphatase and tensin homolog, phosphatase and	tensin homolog (mutated in multiple advanced cancers 1), phosphatase and tensin
2297	11296	11296 NM_031606	J.	tensin homolog (mutated in multiple advanced cancers 1)	tensin homolog (mutated in multiple advanced cancers 1) homolog (mutated in multiple advanced cancers 1), pseudogene 1
					Homo sapiens, clone MGC:22776 IMAGE:4700840, mRNA, complete cds, RIKEN
	-			phosphatidylethanolamine binding protein, prostatic	cDNA 1700023A18 gene, RIKEN cDNA 1700081D17 gene,
1977	15598	15598 NM_017236	:=	binding protein	phosphatidylethanolamine binding protein, prostatic binding protein

TABLE 3	3				Atty, Ref. 44921-5090-01-WO/2105485
SEQ ID	Q 09	GenBank Acc. No.	Model Code Human H	omologous Known Gene Name	lúster Title
1975	24598	24598 NM_017231	hh	phosphatidylinositol transfer protein, phosphotidylinositol transfer protein	EST, Weakly similar to PPI1_RAT PHOSPHATIDYLINOSITOL TRANSFER PROTEIN ALPHA) (PTDINSTP) (PI-TP-ALPHA) (PTDINS TRANSFER PROTEIN ALPHA) (PTDINSTP) (PI-TP-ALPHA) [R.norvegicus], phosphatidylinositol transfer protein, phosphatidylinositol transfer protein, retinal degeneration B2 homolog (Drosophila)
2558	945	945 NM_138882	j. k, s, t	phosphatidylserine-specific phospholipase A1, phosphatidylserine-specific phospholipase A1alpha	ESTs, Weakly similar to A34671 friacylglycerol lipase [M.musculus], ESTs, Weakly similar to S15893 triacylglycerol lipase [M.musculus], Homo sapiens membranebound phosphatidic acid-selective phospholipase A1 mRNA, complete cds, expressed sequence AA986889, lipase, endothelial, pancreatic lipase-related protein 2
63	14250	14250 AA799729	j, k	phosphodiesterase 4B, cAMP specific, phosphodiesterase 4B, cAMP specific (phosphodiesterase E4 dunce homolog, Drosophila)	phosphodiesterase 4B, cAMP specific, phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila), phosphodiesterase E4 dunce homolog, Drosophila), phosphodiesterase E4
1916	14247	14247 NM_017031	h, I	Drosophila)	phosphodiesterase 4B, cAMP specific, phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila), phosphodiesterase E4 dunce homolog, Drosophila), phosphodiesterase 9A
2320	1340	1340 NM_031715	jj, kk	phosphofructokinase, muscle	ESTs, Highly similar to phosphofructokinase, muscle; phosphofructokinase-1 A isozyme [Mus musculus] [M.musculus], expressed sequence Al131669, phosphofructokinase, muscle
					ESTs, Highly similar to K6PP_MOUSE 6-PHOSPHOFRUCTOKINASE, TYPE C (PHOSPHOFRUCTOKINASE 1) (PHOSPHOHEXOKINASE) (PHOSPHOFRUCTO- 1-KINASE ISOZYME C) (PFK-C) [M.musculus], ESTs, Moderately similar to A53047 6-phosphofructokinase [R.norvegicus], ESTs, Weakly similar to JC2055 6- phosphofructokinase [H.sapiens], ESTs, Weakly similar to K6PL MOUSE 6- PHOSPHOFRUCTOKINASE, LIVER TYPE [M.musculus], phosphofructokinase,
1701	12058 L25387	25387	w		platelet
2365	25377 L25387 1311 NM_05	5377 L25387 1311 NIM_053291	e uu	pnosphorructokinase, platelet phosphoglycerate kinase 1	ESTs, Highly similar to A33792 phosphoglycerate kinase (EC 2.7.2.3) - rat [R.norvegicus], phosphoglycerate kinase 1, phosphoglycerate kinase 2
2003	24533	24533 NM_017328	ט, ט	2, phosphoglycerate mutase 2	EST, Weakly similar to PMGM MOUSE PHOSPHOGLYCERATE MUTASE, MUSCLE FORM [M.musculus], EST, Weakly similar to PMHUYM phosphoglycerate mutase [H.sapiens], phosphoglycerate mutase 2, phosphoglycerate mutase 2 (muscle)

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n D D D	GLGC ID No.	Genbank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2446		11405 NM_053866	ţ	phospholipase A2, activating protein, phospholipase A2-activating protein	phospholipase A2, activating protein, phospholipase A2-activating protein
					ESTs, Highly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE
					NUCLEOTIDE EXCHANGE FACTOR (H.sapiens), ESTS, Weakly similar to B39898 phospholipase A2 (M.musculus), ESTS, Weakly similar to FGD1 MOUSE PUTATIVE
					RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTOR [M.musoulus], ESTs,
	_				Weakly similar to FGD1_HUMAN PUTATIVE RHO/RAC GUANINE NUCLEOTIDE
					EXCHANGE FACTOR [H.sapiens], FGD1 family, member 3, Homo sapiens cDNA
					FLJ32732 fis, clone TESTI2001141, highly similar to Rattus norvegicus actin-
	-				filament binding protein Frabin mRNA, Mus musculus actin-binding protein frabin-
					alpha mRNA, complete cds, RIKEN cDNA 2310026J01 gene, RIKEN cDNA
					2610311B01 gene, RIKEN cDNA 5830461L01 gene, faciogenital dysplasia
-			a, j, k, y, z,	phospholipase A2, group IVA (cytosolic, calcium-	homolog, hypothetical protein FLJ11183, phospholipase A2, group IVA (cytosolic,
2528	ı	-	춪	(dependent)	calcium-dependent), phospholipase A2, group IVB (cytosolic)
1962	9378 N	9378 NM_017174	<u>;;</u>	phospholipase A2, group V	phospholipase A2, group V
					Homo sapiens mRNA; cDNA DKFZp434E235 (from clone DKFZp434E235),
2186	20933 N	20933 NM_024353	h, i	phospholipase C, beta 4	phospholipase C, beta 1
					ESTs, Moderately similar to KPBG_HUMAN PHOSPHORYLASE B KINASE
					GAMMA CATALYTIC CHAIN, SKELETAL MUSCLE ISOFORM [H.sapiens],
				=	endoplasmic reticulum (ER) to nucleus signalling 2, phosphorylase kinase gamma,
2288	246 N	546 NM_031573	h, ii	gamma 1 (muscle)	phosphorylase kinase, gamma 1 (muscle)
			-		liver glycogen phosphorylase, muscle glycogen phosphorylase, phosphorylase,
92	4832 A	4832 AA800190	a, e, ii, kk	phosphorylase, glycogen; brain	glycogen; brain
					liver glycogen phosphorylase, muscle glycogen phosphorylase, phosphorylase,
5295	4834 N	4834 NM_153821	h, I	phosphorylase, glycogen; brain	glycogen; brain
					ESTs, Highly similar to PPI2_HUMAN PHOSPHATIDYLINOSITOL TRANSFER
2423	13369 N	13369 NM_053742	u, o	phosphotidylinositol transfer protein, beta	PROTEIN BETA ISOFORM [H.sapiens], phosphotidylinositol transfer protein, beta
				platelet derived growth factor, alpha, platelet-derived	platelet derived growth factor, alpha, platelet-derived growth factor alpha
872	1332 A	1332 AI013222		growth factor alpha polypeptide	polypeptide
2074	15911 N	15911 NM_019907	c, dd	postsynaptic protein CRIPT, postsynaptic protein Cript	
		!			
1995		82 NM_017297	:=	member 5	potassium inwardly-rectifying channel, subfamily J, member 5

TABLE 3	3	i gransi			
SEO		IGenBank Acc.			Ally, Ref. 44921-5030-01-WO/Z105485
<u>_</u>	GLGC ID No.	No.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1938	·	15517 NM_017099	0	potassium inwardly-rectifying channel, subfamily J, member 8	potassium inwardly-rectifying channel, subfamily J. member 8
1997		1028 NM 017304		potassium voltage-gated channel, shaker-related subfamily beta member 2	notaccium voltana antad ahanna lahahar antahan antaili. Lai
1001	Ĭ	A1404047	- 4	potassium voltage-gated channel, shaker-related	potassiam votage gated original, shaker related subtaininy, beta member 2
3		1320/ A110104/	п, 1	subramily, member 5	potassium voltage-gated channel, shaker-related subfamily, member 5
1940		15776 NM_017108	, ,	potassium voltage-gated channel, subfamily H (eag- related), member 3	RIKEN cDNA C030044P22 gene, expressed sequence AU019351, potassium
1982	1	NM_017252	s, t	POU domain, class 3, transcription factor 4	POU domain, class 3, transcription factor 4
2524	1	2788 NM_133528	s, t	preimplantation protein 3	preimplantation protein 3
					ESTS, Weakly similar to Ser/Arg-related nuclear matrix protein; plenty-of-prolines-101; serine/arginine repetitive matrix protein 1 [Mus musculus] [M.musculus], Mus musculus, Similar to hypothetical protein MGC13125, clone MGC:38070 IMAGE:5252666, mRNA, complete cds, PRKC, apoptosis, WT1, regulator,
2361		23895 NM_033485	aa	PRKC, apoptosis, WT1, regulator	expressed sequence AI480556, glucocorticoid-induced gene 1, serine/arginine repetitive matrix 1
2043		15503 NM_019237	o 'u	procollagen C-endopeptidase enhancer, procollagen C-proteinase enhancer protein	EST, Weakly similar to PCO1_HUMAN PROCOLLAGEN C-PROTEINASE ENHANCER PROTEIN PRECURSOR [H.sapiens], ESTs, Weakly similar to PCO1_RAT Procollagen C-proteinase enhancer protein precursor (PCPE) (Type I procollagen COOH-terminal proteinase enhancer) (Type 1 procollagen C-proteinase enhancer protein) [R.norvegicus], expressed sequence Al043106, membrane frizzled-related protein, procollagen C-endopeptidase enhancer, procollagen C-endopeptidase enhancer protein
1842		19393 NM_012998	h, I	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55), prolyl 4-hydroxylase, beta polypeptide	
88		20298 NM_019374	m, II	prodynorphin	
2088		17936 NM_021766	d, r, gg	progesterone receptor membrane component 1	Homo sapiens, clone MGC:32124 IMAGE:4877960, mRNA, complete cds, RIKEN CDNA 4631434019 gene, progesterone receptor membrane component 1
2107	ļ	11454 NM_022381	d, l, m, n, o, s, t	proliferating cell nuclear antigen	proliferating cell nuclear antigen

TABLE 3	က်		Sir	2. 81.51 2. 81.51	
SEO	,	GenBank Acc.	1	7.27	Auy, Ker. 449Z1-509U-U1-WU/Z105483
<u>0</u>	GLGC ID No.	No.	7.7	Model Code Human Homologous Kriown Gene Name	Human Homologous Sequence Cluster Title
2107		11455 NM_022381	S	proliferating cell nuclear antigen	1
- ]				prosaposin, prosaposin (variant Gaucher disease and	
1847	- 1	23545 NM_013013	l, m	variant metachromatic leukodystrophy)	
1776		501 NM_012704	:=	prostaglandin E receptor 3 (subtype EP3)	
1776		503 NM_012704	n, o	prostaglandin E receptor 3 (subtype EP3)	
					RIKEN cDNA 4833439017 gene, immunoglobulin superfamily, member 2,
2045		21108 NM_019243	J.	prostaglandin F2 receptor negative regulator	inmunogrobum superiamily, member 3, immunoglobum superfamily, member 8, prostaglandin F2 receptor negative regulator
					EST, Highly similar to PTGI_RAT Prostacyclin synthase (Prostaglandin I2 synthase)
2006		184 004 EE 7	=		[R.norvegicus], cytochrome P450, subfamily VIIIB (sterol 12-alpha-hydroxylase),
C077		/CC150 MINI 750	S, t, II	prostaglandin 12 (prostacyclin) synthase	polypeptide 1, prostaglandin 12 (prostacyclin) synthase
1976		20193 NM_017232	Ö	prostaglandin-endoperoxide synthase 2, prostaglandin- endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	prostaglandin-endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2
					(prostagranding of 1 synthese and cyclobyygenase)
1991	]	15142 NM_017278	E.	proteasome (prosome, macropain) subunit, alpha type 1, proteasome (prosome, macropa proteasome (prosome, macropain) subunit, alpha type, 1   macropain) subunit, alpha type,	ne (prosome, macropain) subunit, alpha type 1, proteasome (prosome, macropain) subunit, alpha type 1, proteasome (prosome, pe (prosome, macropain) subunit, alpha type, 1
					EST, Weakly similar to SNHUC8 multicatalytic endopeptidase complex [H.sapiens], ESTs, Highly similar to PRC8 MOUSE PROTEASOME COMPONENT OR
					[M.musculus], ESTs, Weakly similar to PRC8 MOUSE PROTEASOME
Ş	40040	00000			le (prosome, macropain) subunit, alpha type 3, COMPONENT C8 [M.musculus], proteasome (prosome, macropain) subunit, alpha
2	100/3/	100/3/44849028		proteasome (prosome, macropain) subunit, alpha type, 3	type 3, proteasome (prosome, macropain) subunit, alpha type, 3
					ESTs, Highly similar to S30274 multicatalytic endopeptidase complex [H.sapiens],
					ESTS, Weakly Similar to JX0230 multicatalytic endopeptidase complex (EC
- 00		00001		proteasome (prosome, macropain) subunit, alpha type 6,	proteasome (prosome, macropain) subunit, alpha type 6,  3.4.99.46) iota chain - rat [R.norvegicus], proteasome (prosome, macropain)
1882	- 1	15538 NM_01/283		proteasome (prosome, macropain) subunit, alpha type, 6  subunit, alpha type 6	subunit, alpha type 6

TABIE2	~	AND COLOR	10,82	Carren Company	
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	<del></del>	GenBank Acc.			
<u> </u>	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Highly similar to PSA7_HUMAN PROTEASOME SUBUNIT ALPHA TYPE 7 (PROTEASOME SUBUNIT RC6-1) (PROTEASOME SUBUNIT XAPC7) IH.sapiens).
					EST, Highly similar to S60038 multicatalytic endopeptidase complex (EC 3.4.99.46)
_	-				alpha chain RC6-I - rat [R.norvegicus], Homo sapiens, similar to Proteasome
					subunit alpha type 7 (Proteasome subunit RC6-1), clone MGC:26605
					IMAGE:4829939, mRNA, complete cds, RIKEN cDNA 2410072D24 gene,
Ş				proteasome (prosome, macropain) subunit, alpha type 7,	le (prosome, macropain) subunit, alpha type 7,  proteasome (prosome, macropain) subunit, alpha type 7, proteasome (prosome,
1662	9029 C	9029 D30804	HH.	proteasome (prosome, macropain) subunit, alpha type, 7	macropain) subunit, alpha type, 7
				proteasome (prosome, macropain) subunit, beta type, 9	
	•			(large multifunctional protease 2), proteosome (prosome,	proteasome (prosome, macropain) subunit, beta type. 9 (large multifunctional
				macropain) subunit, beta type 9 (large multifunctional	
1777	4003 h	4003 NM_012708	Ф	protease 2)	multifunctional protease 2)
				protein kinase, AMP-activated, beta 1 non-catalytic	expressed sequence AW049591, protein kinase, AMP-activated, beta 1 non-
2346	176011	17601 NM_031976	a, jj, kk	subunit	catalytic subunit
1859	21287 N	21287 NM_013065	l, m	protein phosphatase 1, catalytic subunit, beta isoform	protein phosphatase 1, catalytic subunit, beta isoform
					RIKEN cDNA 2010107K19 gene, RIKEN cDNA 4933415F23 gene, protein
					phosphatase 1, regulatory (inhibitor) subunit 14A, protein phosphatase 1, regulatory
0	-				(inhibitor) subunit 14B, protein phosphatase 1, regulatory (inhibitor) subunit 14C,
2003	96331	9633 NM_130403	;; K	protein phosphatase 1, regulatory (inhibitor) subunit 14A	protein phosphatase 1, regulatory (inhibitor) subunit 14c
					EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1
					[H.sapiens], ESTs, Moderately similar to PROTEIN PHOSPHATASE INHIBITOR 1
					[R.norvegicus], Mus musculus, clone MGC:18770 IMAGE:4164563, mRNA,
3					complete cds, RIKEN cDNA 4930565M23 gene, protein phosphatase 1 regulatory
2148	24564 N	74564 NM_022676		4	subunit 1A, protein phosphatase 1, regulatory (inhibitor) subunit 1A
				, protein phosphatase 2a, catalytic subunit,	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform, protein
1918	3203 N	3203 NM_017039	O		phosphatase 2a, catalytic subunit, alpha isoform
					Mus musculus adult female placenta cDNA, RIKEN full-length enriched library,
					clone:1600017J22:protein phosphatase 2a, catalytic subunit, beta isoform, full insert
10,0	24507 N	040740	; ;	protein phosphatase 2a, catalytic subunit,	sequence, protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform,
202	N /6047	040710 MINI 017040	ib, I, m, u, v   beta isotorm		protein phosphatase 2a, catalytic subunit, beta isoform

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SEO		GenBank Acc.	F	44.0	1
<u>□</u>	GLGC ID No.	No.	- 6	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2292		24219 NM_031579	d, p, q, y, z, KK	d, p, q, y, z, protein tyrosine phosphatase 4a1, protein tyrosine kk phosphatase type IVA, member 1	protein tyrosine phosphatase 4a1, protein tyrosine phosphatase 4a3, protein tyrosine phosphatase type IVA, member 1, protein tyrosine phosphatase type IVA, member 3
1767		1841 NM_012637	d, jj, kk	protein tyrosine phosphatase, non-receptor type 1	EST, Moderately similar to A34845 protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type 1B - rat [R.norvegicus], ESTs, Moderately similar to PTN1_HUMAN PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 [H.sapiens], protein tyrosine phosphatase, non-receptor type 1
1767	1844	1844 NM_012637	p, q, y, z	protein tyrosine phosphatase, non-receptor type 1	EST, Moderately similar to A34845 protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type 1B - rat [R.norvegicus], ESTs, Moderately similar to PTN1_HUMAN PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1 [H.sapiens], protein tyrosine phosphatase, non-receptor type 1
2021	14973	14973 NM_019140	a a a	protein tyrosine phosphatase, receptor type, D	ESTs, Weakly similar to 2103274A receptor type protein Tyr phosphatase [M.musculus], RIKEN cDNA 1600019004 gene, expressed sequence AU040377, protein tyrosine phosphatase, receptor type. S
2085		22916 NM_021740	:==	prothymosin alpha, prothymosin, alpha (gene sequence 28)	ESTs, Highly similar to THYA_HUMAN PROTHYMOSIN ALPHA [H.sapiens], RIKEN cDNA 2610009E16 gene, prothymosin alpha, prothymosin, alpha (gene sequence 28)
1510	4716	4716 AI232313	۵, ۲	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel, 4	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel. 4
2499	363	363 NM_080780	d, e, p, q, ee, ff	purinergic receptor P2X, ligand-gated ion channel, 5	purinergic receptor P2X, ligand-gated ion channel, 5
1983	1496	1496 NM_017255	aa, bb	purinergic receptor P2Y, G-protein coupled 2, purinergic receptor P2Y, G-protein coupled, 2	G protein-coupled receptor 31, G protein-coupled receptor 35, Mus musculus, clone MGC:28142 IMAGE:3982042, mRNA, complete cds, RIKEN cDNA 2610302I02 gene, RIKEN cDNA 5830408N17 gene, expressed sequence AI662791, purinergic receptor P2Y, G-protein coupled 2, purinergic receptor P2Y, G-protein coupled 2, purinergic receptor P2Y, G-protein coupled 2,
2208	1928	1928 NM_030872	ý v	pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2	Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 1, clone MGC:28719 IMAGE:4458562, mRNA, complete cds, Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 3, clone MGC:6383 IMAGE:3500763, mRNA, complete cds, pyruvate dehydrogenase kinase, isoenzyme 2
				אווומסכן וסטכוול זוווכ ב	Isoenzyme z

TABLE 3	3			· · · · · · · · · · · · · · · · · · ·	18 Paracharan No Const Jed CHA. これができた。 ままな 一般など Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Maracharan Mara
SEQ	9	GenBank Acc.	$\overline{}$		AUY, INST. 4492.1:0030-01-WV/Z 10346
⊇:	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					Mus musculus, Similar to pyruvate dehydrogenase kinase, isoenzyme 1, clone MGC:28719 IMAGE:4458562, mRNA, complete cds, Mus musculus, Similar to
				pyruvate dehydrogenase 2, pyruvate dehydrogenase	pyruvate dehydrogenase kinase, isoenzyme 3, clone MGC:6383 IMAGE:3500763, mRNA, complete cds, pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase.
2208		1929 NM_030872	듈	kinase, isoenzyme 2	isoenzyme 2
					ESTs, Weakly similar to RABB_HUMAN RAS-RELATED PROTEIN RAB-8
					[H.sapiens], RAB10, member RAS oncogene family, RAB12, member RAS
2012		20417 NM_017359	h, í, hh	RAB10, member RAS oncogene family	oncogene family, RAB38, member RAS oncogene family, expressed sequence AA538966, expressed sequence
					ESTs, Weakly similar to C34323 GTP-binding protein Rab3A IH. sapiens]. RAB3A
1849		20229 NM_013018	芠	RAB3A, member RAS oncogene family	member RAS oncogene family
2231	ļ	18307 NM_031091	w, x	RAB3B, member RAS oncogene family	RAB3B, member RAS oncogene family
2231		18308 NM_031091	w, x	RAB3B, member RAS oncogene family	RAB3B, member RAS oncogene family
					Mus musculus adult male lung cDNA, RIKEN full-length enriched library,
					clone:1200013E08:raf-related oncogene, full insert sequence, expressed sequence
-				raf-related oncogene, v-raf murine sarcoma 3611 viral	AW495444, raf-related oncogene, v-raf murine sarcoma 3611 viral oncogene
2133	ľ	65/1 NM_02532	u, v	oncogene homolog 1	homolog 1
2351	- 1	21807 NM_032067	99	Ral-interacting protein 1, ralA binding protein 1	Ral-interacting protein 1, ralA binding protein 1
2351	- 1	21809 NM_032067	=	Ral-interacting protein 1, ralA binding protein 1	Ral-interacting protein 1, ralA binding protein 1
1661	- 1	D30734	99	RAS p21 protein activator 2	
					Mus musculus small GTP-binding tumor suppressor 1 (Gbts1) mRNA, complete
					cds, Mus musculus, Similar to RAP1A, member of RAS oncogene family, clone
					MGC:18653 IMAGE:3600519, mRNA, complete cds, RAP2B, member of RAS
					oncogene family, RAS, dexamethasone-induced 1, RIKEN cDNA 1110065D03
					gene, RIKEN cDNA 2010200P20 gene, RIKEN cDNA 5830461H18 gene, rap2A-like
1547	22152,	22152 AI234822	×	RAS, dexamethasone-induced 1	protein, ras homolog gene family, member I
					ESTs, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A
900		02250 NIM 042246		KAS-homolog enriched in brain, Kas homolog enriched in	RAS-nomolog enriched in brain, Ras homolog enriched in [M.musculus], RAS-homolog enriched in brain, RIKEN cDNA 1810036J22 gene,
020		NIN 013210	D.	Diam 2	Ras homolog enriched in brain 2, ras-like protein VTS58635
					ESTS, Weakly similar to Ras-related associated with diabetes [Rattus norvegicus]
					Including applied to the billing protein (gene overexpressed in skeletal muscle), GTP thinking applied to the second in platest and the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second in the second
2373		1609 NM_053338	i, D. d. V. Z	Ras-related associated with diabetes	binding protein overexpressed in skeletal muscle, Ras-related associated with diahetes rad and dem related CTD hinding protein
			1		Graderes, rad and gent refered of 17 unfully protein

TABLE 3	3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	SOLD CONTROL OF A REPORT OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A STREET OF A
SEO	ĺ	GenBank Acc.			
	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Titte
2305	160621	16062 NM_031646	o 'u	receptor (calcitonin) activity modifying protein 2	receptor (calcitonin) activity modifying protein 2
			]	of G-protein signaling 5, regulator of G-protein	
7007	7088	2088 NM_019341	aa, bb	signalling 5	regulator of G-protein signaling 5, regulator of G-protein signalling 5
					ESTs, Weakly similar to 156519 taipoxin-assoclated calcium binding protein-49
				œ	lbin 2, reticulocalbin 2, EF-hand calcium binding precursor - rat [R.norvegicus], calumenin, reticulocalbin, reticulocalbin 2,
1947	209161	20916 NM_017132	Б	domain	reticulocalbin 2, EF-hand calcium binding domain
			•		EST, Moderately similar to RETINOBLASTOMA-ASSOCIATED PROTEIN
	-				[M.musculus], ESTs, Highly similar to RB MOUSE RETINOBLASTOMA-
		0		1, retinoblastoma 1 (Including	ASSOCIATED PROTEIN [M.musculus], retinoblastoma 1, retinoblastoma 1
200	1/264 D25233	725233	g	osteosarcoma)	(including osteosarcoma)
	·				Mus musculus 11 days embryo whole body cDNA, RIKEN full-length enriched
,	- 1		:		library, clone:2700054A06:retinoblastoma-like 1 (p107), full insert sequence,
1419	13///	13/7/AI227715	a, ee, ff	retinoblastoma-like 2, retinoblastoma-like 2 (p130)	retinoblastoma-like 1 (p107), retinoblastoma-like 2, retinoblastoma-like 2 (p130)
					Mus musculus 11 days embryo whole body cDNA, RIKEN full-length enriched
-			:		library, clone:2700054A06:retinoblastoma-like 1 (p107), full insert sequence,
2233	13/6	13/6 NM_031094	=	retinoblastoma-like 2, retinoblastoma-like 2 (p130)	retinoblastoma-like 1 (p107), retinoblastoma-like 2, retinoblastoma-like 2 (p130)
					ESTs, Weakly similar to RET1_RAT Retinol-binding protein I, cellular (Cellular
					retinol-binding protein) (CRBP) [R.norvegicus], retinoid binding protein 7, retinol
					binding protein 1, cellular, retinol binding protein 5, cellular, retinol binding protein 7,
1/87	73806	23806 NM_012733	j, <del>K</del>		cellular
					Rho-associated colled-coil forming kinase 2, Rho-associated, colled-coil containing
1850	1338N	1338INM_013022	_	associated, colled-coll containing protein kinase 2	protein kinase 2, expressed sequence AU014939
					EST, Moderately similar to RIB2_HUMAN DOLICHYL-
					DIPHOSPHOOLIGOSACCHARIDEPROTEIN GLYCOSYLTRANSFERASE 63
				<u> </u>	KDA SUBUNIT PRECURSOR [H.sapiens], ESTs, Moderately similar to
	_			u.	RIB2_HUMAN DOLICHYL-DIPHOSPHOOLIGOSACCHARIDEPROTEIN
- ;					GLYCOSYLTRANSFERASE 63 KDA SUBUNIT PRECURSOR (H.sapiens),
2314	21575N	21575 NM_031698	w, x	ribophorin II	ribophorin 2, related sequence 1, ribophorin II
7000	14040	100400		3	EST, Moderately similar to R10A MOUSE 60S RIBOSOMAL PROTEIN L10A
1777	1184811	COULT WINIGHOLD	n, ı, n, o	ribosomai protein L10A, ribosomal protein L10a	[M.musculus], ribosomal protein L10A, ribosomal protein L10a

GenBank Acc. LGC ID No. 23854 NM_031101 20462 NM_031102 16938 NM_031103 14927 NM_053330 5667 X58200	TARIFA	2.3				
Gi.GC   Div.   Model Code   Human Homologous Known Gene Name	CHY		CanBank Acc		· · · · · · · · · · · · · · · · · · ·	
23854 NM_031101 f, w, x, ii ribosomal protein L13 20462 NM_031102 h, i ribosomal protein L18 16938 NM_031103 g ribosomal protein L19 14927 NM_053330 e ribosomal protein L21 E E E E E E E E E E E E E E E E E E E	<u>.</u>	GLGC ID	No.			Human Homologous Sequence Cluster Title
23854 NM_031101 f, w, x, it ribosomal protein L13  20462 NM_031102 h, i ribosomal protein L18  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14929 NM_053330 h, i ribosomal protein L21  5667 X58200 h, i ribosomal protein L21						EST, Moderately similar to JC2368 ribosomal protein L13, cytosolic [validated] - rat
23854 NIM_031101 f, w, x, ii ribosomal protein L13  20462 NIM_031102 h, i ribosomal protein L18  16938 NIM_031103 g ribosomal protein L19  14927 NIM_053330 e ribosomal protein L21  14929 NIM_053330 h, i ribosomal protein L21  5667 X58200 h, i w, x ribosomal protein L23						from veglous, ES1, weakly similar to JC2308 ribosomal protein L13, cytosolic [validated] - rat [R.norvegious], ESTs, Highly similar to inposomal protein L13- 60s
23854 NM_031102 h, i ribosomal protein L13  20462 NM_031102 h, i ribosomal protein L18  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  R R R R R R R R R R R R R R R R R R R						ribosomal protein L13; breast basic conserved protein 1 [Homo sapiens]
23854 NM_031101 f, w, x, II ribosomal protein L13  20462 NM_031102 h, I ribosomal protein L18  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14928 NM_053330 h, I ribosomal protein L21  5687 X58200 h, I ribosomal protein L21						[H.sapiens], ESTs, Moderately similar to RL13 MOUSE 60S RIBOSOMAL
20462 NM_031102 h, i ribosomal protein L13  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14928 NM_053330 h, i ribosomal protein L21  14928 NM_053330 h, i ribosomal protein L21  14928 NM_053330 h, i ribosomal protein L21						PROTEIN L13 [M.musculus], Homo sapiens cDNA FLJ30941 fis, clone
16938 NM_031102 h, l ribosomal protein L18  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14929 NM_053330 h, l ribosomal protein L21  5667 X58200 h, l, w, x ribosomal protein L23	2237		NM_031101	f, w, x, II	ribosomal protein L13	FEBRA2007458, Human RPL13-2 pseudogene mRNA, complete cds, ribosomal protein 113
16938 NM_031102 h, i ribosomal protein L18  16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14929 NM_053330 h, i ribosomal protein L21  5667 X58200 h, i, w, x ribosomal protein L23	9					ESTS, Weakly similar to 60S RIBOSOMAL PROTFIN I 18 IM musculus] ribasomal
16938 NM_031103 g ribosomal protein L19  14927 NM_053330 e ribosomal protein L21  14929 NM_053330 th, 1 ribosomal protein L21  5667 X58200 h, 1, w, x ribosomal protein L23	2238		NM_031102	l, l	ribosomal protein L18	protein L18
16938 NM_031103 g ribosomal protein L19 14927 NM_053330 e ribosomal protein L21  14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I w, x ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L21						EST, Weakly similar to RL19 MOUSE 60S RIBOSOMAL PROTEIN L19
14927 NM_05330 e ribosomal protein L21  14929 NM_05330 h, I ribosomal protein L21  5 5 667 X58200 h, I, w, x ribosomal protein L23						[M.musculus], ESTs, Weakly similar to RL19_HUMAN 60S RIBOSOMAL PROTEIN
14929 NM_053330 e ribosomal protein L21  14929 NM_053330 h, I ribosomal protein L21  5667 X58200 h, I, w, x ribosomal protein L23	C		000000			L1 [M.musculus], ESTs, Weakly similar to RL19, HUMAN 60S ribosomal profein 1.19
14927 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23	2577		NM_031103	6	ribosomal protein L19	[R.norvegicus], ribosomal protein L19
14929 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23						ES1, Moderately similar to 2113200B ribosomal protein L21 [H.sapiens], ES1,
14929 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23						[Moderately similar to RL21_RAT 60S RIBOSOMAL PROTEIN L21 [R.norvegicus],
14929 NM_05330 e ribosomal protein L21 14929 NM_05330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23						ES1, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly
14929 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23						similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST,
14929 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23						Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens],
14929 NM_053330 e ribosomal protein L21 14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L21						ESTs, Highly similar to 2113200B ribosomal protein L21 [H.sapiens], ESTs, Highly
14927 NM_053330         e         ribosomal protein L21           14929 NM_053330         h, I         ribosomal protein L21           5667 X58200         h, I, w, x         ribosomal protein L23	•					similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ESTs,
14929 NM_053330 h, I ribosomal protein L21 5667 X58200 h, I, w, x ribosomal protein L23	2274	14007	050000			Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus],
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23	3	14251	USSSSSS		ribosomai protein L21	ribosomal protein L21
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						EST, Woderately similar to 2113200B ribosomal protein L21 [H.sapiens], EST,
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						Injudicitately Similar to RLZ1_RA1 6US KIBOSOMAL PROTEIN L21 (R.norvegicus),
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						ES1, Weakly similar to 2113200B ribosomal protein L21 [H.sapiens], EST, Weakly
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], EST,
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						Weakly similar to RL21_HUMAN 60S RIBOSOMAL PROTEIN L21 [H.sapiens],
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						ESTs, Highly similar to 2113200B ribosomal protein L21 [H.sapiens], ESTs, Highly
14929 NM_053330 h, l ribosomal protein L21 5667 X58200 h, l, w, x ribosomal protein L23						similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus], ESTs,
5667 X58200   h, l, w, x   ribosomal protein L23	2371	14929 N	JM 053330	_	rihosomol protein 1.21	Moderately similar to RL21 MOUSE 60S RIBOSOMAL PROTEIN L21 [M.musculus],
COOL   ACOCO   11, 1, W, A   HDUSOFIER	285	7 5867 Y	758200	2	ibosoniiai pioteiii LZ i	ribosomai protein L21
	3	1000	20200			

TABLE 3	3				
SEO		GenBank Acc		COMPANY.	Ally: Ref. 449Z1-5090-01-WO/Z105485
Ω	GC 1D	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2125	2696	2696 NM_022515	cc, dd	ribosomal protein L24	Homo sapiens, clone MGC:27044 IMAGE:4793412, mRNA, complete cds, Mus musculus, Similar to 60S ribosomal protein L30 isolog, clone MGC:6735 IMAGE:3590401, mRNA, complete cds, ribosomal protein L24
2125	2697	2697 NM_022515	f, g,	ribosomal protein L24	Homo sapiens, clone MGC:27044 IMAGE:4793412, mRNA, complete cds, Mus musculus, Similar to 60S ribosomal protein L30 isolog, clone MGC:6735
2124	3027	3027 NM_022514	w, x		ribosomal protein L27
2152	17729 1	17729 NM_022697	f, g, w, x, cc, dd	ribosomal protein L28	ribosomal protein L28
c c	3				EST, Moderately similar to RL29_HUMAN 60S RIBOSOMAL PROTEIN L29 [H.sapiens], EST, Moderately similar to RL29_RAT 60S RIBOSOMAL PROTEIN L29 (P23) [R.norvegicus], ESTs, Highly similar to S65784 ribosomal protein L29,
0007	16611 X582UU	00789	g	ribosomal protein L29	cytosolic [H.sapiens], ribosomal protein L29
8/07	15335	15335 NM_021264	W	ribosomal protein L35a	
2120	4259 N	4259 NM_022504	f, g	ribosomal protein L36	EST, Moderately similar to ribosomal protein L36 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 1110038G14 gene, ribosomal protein I 36
2564	15380 N	15380 NM_139083	u, v, cc, dd	ribosomal protein L41	ESTs, Highly similar to YZA1_HUMAN HYPOTHETICAL PROTEIN [H.sapiens], ribosomal protein L41
					EST, Highly similar to RL8 HUMAN 60S ribosomal protein I 8 fR nonserious 1 EST
					Weakly similar to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly
					similar to R5RTL8 ribosomal protein L8, cytosolic [validated] - rat [R.norvegicus],
					ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus],
000	- 100				ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L
0007	158/5 X62145		ı,	ribosomal protein L8	[M.musculus], expressed sequence AL024098, ribosomal protein L8
					EST, Moderately similar to S65792 ribosomal protein L9, cytosolic [H.sapiens], EST,
					Weakly similar to RL9_RAT 60S RIBOSOMAL PROTEIN L9 [R.norvegicus], ESTs,
Cudo	2000				Weakly similar to 60S RIBOSOMAL PROTEIN L9 [M.musculus], RIKEN cDNA
002	90/102/00201		w, x	ribosomai protein L9	4930401B11 gene, ribosomal protein L9
2653	20427 1753278				ESTs, Moderately similar to RS13_HUMAN 40S RIBOSOMAL PROTEIN S13
2002	4074/			nosonial protein 513	[H.sapiens], ribosomai protein S13

TABLE 3	3		The state of the		
SEO		GenBank Acc.	-	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	- 11 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July 1 July
Ω	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapiens],
1955		16953 NM_017151	ס	ribosomal protein S15	ESTs, Highly similar to RS15_HUMAN 40S RIBOSOMAL PROTEIN S15 IM musculus) ribosomal protein S15
					EST, Moderately similar to R3HU15 ribosomal protein S15. cytosolic IH saniens!
1955		16954 NM 017151	g	rihosomal protein S15	ESTs, Highly similar to RS15_HUMAN 40S RIBOSOMAL PROTEIN S15
	1		26		[W.musculus, mosomal protein S15
					EST: Winderately Similar to R3HU15 ribosomal protein S15, cytosolic (H.sapiens),
1955	l	16955 NM_017151	l, m, s, t	ribosomal protein S15	TOTAL INGINIS SILINING TO NOTICE TO MINISTRANCE MINISTRANCE (IM. musculus), ribosomal protein S15
26.40	·	7000		-	EST Al317031, EST, Weakly similar to R3HU16 ribosomal protein S16, cytosolic
9407		12020 11 002	w, ×	ribosomal protein S16	[H.sapiens], expressed sequence AA420385, ribosomal protein S16
					EST, Moderately similar to R3RT19 ribosomal protein S19, cytosolic (validated) - rat
2654	702137 07900	/64707			[R.norvegicus], EST, Weakly similar to RS19_HUMAN 40S RIBOSOMAL PROTEIN
3	71007	101101	, w, x	ribosomai protein 519	S19 [H.sapiens]
<del></del>					ESTs. Highly similar to 40S DIBOSOMAI BOTTEIN 522 MISTORIA
					similar to ribosomal protein S23 (Pathis porteoiers) ID population with the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant of the significant o
		_			Similar to mitochondrial ribonamal analysis 242 alas 1100 45glodas, Milas Intuacional,
2492	10498	10498 NM_078617	c, g, w, x	ribosomal protein S23	minimal to minotonomial indodumal protein 5.12, crone indec. (3892 IMAGE:4209358), minotonomial protein 2.12, crone indec.
-					ESTS, Highly similar to ribosomal protein S724 Mirs miscriffical
			<del></del> -		ESTs, Highly similar to ubiquitin / ribosomal protein S27a ft saniens I ESTs Meaking
					similar to ribosomal protein S27a [Rattus norvegicus] (R. norvegicus) Mus
					musculus, Similar to ubiquitin-like 4, clone MGC:19132 IMAGE:4215699, mRNA.
9700	0000				complete cds, neural precursor cell expressed, developmentally down-requiated 8,
0477	7083911	ZU&391NIM_U31113	χ, ×	ribosomal protein S27a	ribosomal protein S27a
•					EST, Moderately similar to RS29_HUMAN 40S RIBOSOMAL PROTEIN S29
70,70	1730EN	1730ENM 019976	<u>.</u>		[M.musculus], ESTs, Weakly similar to RS29_HUMAN 40S RIBOSOMAL PROTEIN
2	2002			noosomal protein 529	S29 [H.sapiens], ribosomal protein S29
	··				ES I, Moderately similar to RS29_HUMAN 40S RIBOSOMAL PROTEIN S29
1813	17306N	17306 NM_012876	<u></u>	ribosomal protein S29	[ivi.:riusculus], ESTS, Weakly similar to RS29_HUMAN 40S RIBOSOMAL PROTEIN   S29 IH senions   ribosomal sistems
					Joen (Hisaphens), Housella protein 523

TABLE 3	3	のなるない。	は、意	原			A	Attv. Ref. 44921-5090-01-WO/2105485
SEO ID	GLGC ID No.	GenBank Acc. No.	Model Code Human		lomologous Known Gene Name	Human Hon	Human Homologous Sequence Cluster Title	
						EST, Mode EST, Weakl ESTs, Highl	EST, Moderately similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegic EST, Weakly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus],	EST, Moderately similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], EST, Weakly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Highly similar to RS3 MOUSE 40S ribosomal protein S3 [R.norvegicus],
						ESTs, Mode [H.sapiens],	ESTs, Moderately similar to RS3_HUMAN 40S RIBOSOMAL PROTEIN S [H. sapiens], ESTs, Weakly similar to RS3 MOUSE 40S RIBOSOMAL PRC	ESTs, Moderately similar to RS3_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], ESTs, Weakly similar to RS3 MOUSE 40S RIBOSOMAL PROTEIN S3
2649		10819 X51536	Ö	ribosomal protein S3	SS	[M.musculu inositol 1-ph	M.musculus], hypothetical protein FLJ11252, hypotheti nositol 1-phosphate synthase A1, ribosomal protein S3	M.musculus], hypothetical protein FLJ11252, hypothetical protein FLJ23059, myonositol 1-phosphate synthase A1, ribosomal protein S3
2649		25686 X51536	w, x, hh	ribosomal protein S3	SS			
2659		25702 X58465	x 'x '6	ribosomal protein S5	SS	EST, Moder Weakly simi	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal pro	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST, Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal protein S5
2659		10109 X58465	g, w, x	ribosomal protein S5	SS	EST, Moder Weakly simi	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST, Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal prote	EST, Moderately similar to 2113200E ribosomal protein S5 [H.sapiens], EST, Weakly similar to 2113200E ribosomal protein S5 [H.sapiens], ribosomal protein S5
						EST, Model Moderately	EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], E Moderately similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens]	orotein S6, cytosolic [H.sapiens], EST, SOMAL PROTEIN S6 [H.sapiens],
						EST, Weak Highly simil	y similar to R3HU6 ribosomal prote ar to RS6_HUMAN 40S RIBOSOM.	EST, Weakly similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], ESTs, Highly similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens], ESTs,
1957		17104 NM_017160	<u>, r</u>	ribosomal protein S6	9S	weakly similar to KSt ribosomal protein S6	weakly similar to KS5_HUMAN 40S KIBOSOMAL PKOTEIN S6 [H.sapiens], ribosomal protein S6	MAL PROTEIN S6 [H.sapiens],
						EST, Moder Moderately	EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], E Moderately similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens]	EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], EST, Moderately similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens],
						EST, Weakl	y similar to R3HU6 ribosomal prote	EST, Weakly similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], ESTs, Highly similar to RS6 HUMAN 40S RIBOSOMAL PROTFIN S6 IH sapiens] FSTs
				-		Weakly simi	Weakly similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens]	MAL PROTEIN S6 [H.sapiens],
/25		001/10_MM C01/1	_ 'u	ribosomai protein so	20	FST, Moder	rotein So ately similar to R3HU6 ribosomal p	ribosomai protein se EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic IH,sapiens), EST,
						Moderately	Moderately similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens]	SOMAL PROTEIN S6 [H.sapiens],
						EST, Weaki Highly simils	y similar to R3HU6 ribosomal prote ar to RS6 HI IMAN 40S RIBOSOM	EST, Weakly similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], ESTs, Hinday similar to RS6, HIMAN 40S RIBOSOMAL PROTEIN S6 I'H sanians), ESTs
						Weakly sim	Weakly similar to RS6_HUMAN 40S RIBOSOMAL PROTEIN S6 [H.sapiens]	MAL PROTEIN S6 [H.sapiens],
1957	- 1	17106 NM_017160	o ʻu	ribosomal protein S6	S6	ribosomal protein S6	rotein S6	

TABLE 3	3		Ą	١.	
SEO		GenBank Acc.		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Atty. Ker. 44921-5090-01-WO/2105485
. 1	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				,	EST, Moderately similar to JC4388 ribosomal protein S7, cytosolic [H.sapiens],
					EST, Weakly similar to RSZ_HUMAN 40S RIBOSOMAL PROTEIN S7
					[Principles of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co
					It seniors] EST: Ui-kli digitify similar to JC4368 ribosomal protein S/, cytosolic
					[In:Sapiens], ESTS, rightly similar to RS/_HOMAN 40S RIBOSOMAL PROTEIN S7 [In Sapiens] ESTS Moderately similar to BS7 Utilizani 40S RIBOSOMAL PROTEIN S7
2287		9620 NM_031570	w, x, cc, dd	ribosomal protein S7	1: "Supported, to the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the
					EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [M.musculus], ESTs, Highly
					similar to S25022 ribosomal protein S8, cytosolic [H.sapiens], ESTs, Moderately
2315	16204	16204 NM 031706	f.a. ii. kk	rihosomal profein SR	similar to RS8_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], RIKEN cDNA
			, G (1)		11 I UUUGFUG gene, ribosomai protein S8
					EST, Weakly similar to 40S RIBOSOMAL PROTEIN S8 [M.musculus], ESTs, Highly
					similar to S25022 ribosomal protein S8, cytosolic [H.sapiens], ESTs, Moderately
254	10001	207700			similar to RS8_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], RIKEN cDNA
3	100701	10202 NIVI _ U317 UB	E, K	ribosomal protein S8	1110008P08 gene, ribosomal protein S8
28	18061	18061 AA799735	<u>k</u> ą	RuyB-like 1 (E. coli), RuyB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene,
2316	18054 N	18054 NM_031707	f, g, n, o	RuvB-like 1 (E. coll), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene,
2316	18057 N	18057 NM_031707	•_	RuvB-like 1 (E. coll), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene,
2316	18059 N	18059 NM_031707	p, q, ee, ff	RuvB-like 1 (E. coli), RuvB-like protein 1	Homer, neuronal immediate early gene, 1B, homer, neuronal immediate early gene,
				S100 calcium binding protein A10 (annexin II ligand	EST, Moderately similar to S110_RAT Calpactin I light chain (P10 protein) (P11)
77/00	200	22444	, l, y,	calpactin I, light polypeptide (p11)), \$100 calcium binding	I, light polypeptide (p11)), \$100 calcium binding [R.norvegicus], \$100 calcium binding protein A10 (annexin II ligand, calpactin I, light)
1477	130401	13040 MM 031114	ш (өө	protein A10 (calpactin)	polypeptide (p11)), S100 calcium binding protein A10 (calpactin)
			2	S100 calcium binding protein A4, S100 calcium binding	
1764	20589N	M 012618	x murine old	protein A4 (valcium protein, carvascum, metastasin, minine placental homolog)	S100 calcium binding protein A2, S100 calcium binding protein A4 (calcium protein,
2386	16394 N	16394 NM_053485	h, I, w, x	S100 calcium binding protein A6 (calcyclin)	carvascullit, illetastastit, murine placental nomolog)
			1	1	

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SEO		GenBank Acc.			
₽	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					Mus musculus, S-adenosylhomocysteine hydrolase-like 1, clone MGC:18748 IMAGE:4007102, mRNA, complete cds, S-adenosylhomocysteine hydrolase, S-
1967		20779 NM 017201	 E	S-adenosvihomocysteine hydrolase	adenosylhomocysteine hydrolase, related sequence 3, expressed sequence
2214		15682 NM_031011	0, n	S-adenosylmethionine decarboxylase 1	Sadenosylmathionina decarboxylase 1 Sadenosylmathionina decarboxylase 2
2214		15683 NM_031011	cc, dd, gg	S-adenosylmethionine decarboxylase 1	S-adenosylmethionine decarboxylase 1. S-adenosylmethionine decarboxylase 2
				secreted acidic cysteine rich glycoprotein, secreted	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich
1770		16217 NM_012656	c, aa, bb	protein, acidic, cysteine-rich (osteonectin)	(osteonectin)
				secreted acidic cysteine rich glycoprotein, secreted	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich
1770	- 1	16218 NM_012656	0, n		(osteonectin)
				secreted acidic cysteine rich glycoprotein, secreted	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich
1770	ı	16219 NM_012656	r, gg	protein, acidic, cysteine-rich (osteonectin)	(osteonectin)
				secreted acidic cysteine rich glycoprotein, secreted	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich
1770	- 1	16220 NM_012656	h, í, aa, bb	protein, acidic, cysteine-rich (osteonectin)	(osteonectin)
				secreted acidic cysteine rich glycoprotein, secreted	secreted acidic cysteine rich glycoprotein, secreted protein, acidic, cysteine-rich
1770		16221 NM_012656	Q	protein, acidic, cysteine-rich (osteonectin)	(osteonectin)
				secreted phosphoprotein 1, secreted phosphoprotein 1	
			h, I, n, o, w,	h, I, n, o, w, (osteopontin, bone sialoprotein I, early T-lymphocyte	
1814	- 1	23651 NM_012881	×	activation 1)	
7007		100000			ESTs, Weakly similar to SELW MOUSE SELENOPROTEIN W [M.musculus],
200		1/894 NIM_01302/	99	selenoprotein W, 1, selenoprotein W, muscle 1	selenoprotein W, 1, selenoprotein W, muscle 1
	•				ESTs, Highly similar to A36024 sepiapterin reductase (EC 1.1.1.153) - rat
				sepiapterin reductase, sepiapterin reductase (7,8-	[R.norvegicus], sepiapterin reductase, sepiapterin reductase (7,8-
1718		21400 M36410	ee, ff, gg	dihydrobiopterin:NADP+ oxidoreductase)	dihydrobiopterin:NADP+ oxidoreductase)
				serine (or cysteine) proteinase inhibitor, clade E (nexin,	
1765		15540 NM_012620	a, K	plasminogen activator inhibitor type 1), member 1	
				serine (or cysteine) proteinase inhibitor, clade H (heat	serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 1,
				shock protein 47), member 1, serine (or cysteine)	serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 1,
			c, f, g, j, k,	proteinase inhibitor, clade H (heat shock protein 47),	(collagen binding protein 1), serine (or cysteine) proteinase inhibitor, clade H (heat
1961	ı	17301 NM_017173	y, z	member 1, (collagen binding protein 1)	shock protein 47), member 2

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SEO 1		GenBank Acc.			ANY . NAT. 1-3086301-100463
2	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2322	1	15507 NM_031735		serine/threonine kinase 3 (STE20 homolog, yeast), serine/threonine kinase 3 (Ste20, yeast homolog)	serine/threonine kinase 24 (STE20 homolog, yeast), serine/threonine kinase 25 (STE20 homolog, yeast), serine/threonine kinase 25 (yeast), serine/threonine kinase 3 (STE20 homolog, yeast), serine/threonine kinase 3 (Ste20, yeast homolog), serine/threonine kinase 4
					EST, Weakly similar to SGK_RAT Serine/threonine-protein kinase Sgk (Serum/glucocorticoid-regulated kinase) [R.norvegicus], Mus musculus, hypothetical protein MGC11287 similar to ribosomal protein S6 kinase., clone MGC;38756
					IMAGE:5358742, mRNA, complete cds, RIKEN cDNA 1190006F07 gene, serine/threonine protein kinase CISK, serum/ducocorticoid regulated kinase
2042		20433 NM_019232	p, q, kk	serum/glucocorticoid regulated kinase	serum/glucocorticoid regulated kinase 2, serum/glucocorticoid regulated kinase-like
					LS1s, Highly similar to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase) [R.norvegicus], ESTs, Weakly similar to SNK MOUSE
					SERINE/THREONINE-PROTEIN KINASE SNK [M.musculus], ESTs, Weakly similar
					to SNK_RAT Serine/threonine-protein kinase SNK (Serum inducible kinase)
					[R.norvegicus], Homo sapiens cDNA FLJ30246 fis, clone BRACE2002202, weakly similar to SERINE/THREONINE-PROTEIN KINASE SNK (FC 2 7 1 -) NIMA (newer
ć		700	-	:	in mitosis gene a)-related expressed kinase 1, NIMA (never in mitosis gene a)-
4553		Z655 NM_031821	р	serum-inducible kinase	related kinase 4, serum-inducible kinase
					EST, Moderately similar to SSRD_RAT TRANSLOCON-ASSOCIATED PROTEIN,
					DEL LA SUBUNIT PRECURSOR (TRAP-DELTA) (SIGNAL SEQUENCE
					RECEPTOR DELTA SUBUNIT) (SSR-DELTA) [R.norvegicus], EST, Weakly similar
					to SSRD_HUMAN TRANSLOCON-ASSOCIATED PROTEIN, DELTA SUBUNIT
					PRECURSOR [H.sapiens], Mus musculus, clone IMAGE:4038523, mRNA, partial
-					cds, signal sequence receptor, delta, signal sequence receptor, delta (translocon-
1966	- [	9124 NM_017199	h, 1, hh	receptor, delta (translocon-associated protein delta)	associated protein delta)

TABLE 3	3			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Attv: Ref. 44921-5090-01-WO/2105488
CHS		GenBank Acc		10000	
<del></del>	GLGC ID No.	No.	Model Code	Model Gode Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ES1, highly similar to 142525 secreted leucine-rich repeat-containing protein SLI12
					- mouse (fragment) [M.musculus], ESTs, Weakly similar to hypothetical protein
					MGC7599; clone MGC:7599 [Mus musculus] [M.musculus], ESTs, Weakly similar to
					integral membrane glycoprotein [Mus musculus] [M.musculus], ESTs, Weakly
					similar to ALS MOUSE INSULIN-LIKE GROWTH FACTOR BINDING PROTEIN
					COMPLEX ACID LABILE CHAIN PRECURSOR [M.musculus], ESTs, Weakly
					similar to JG0193 G protein-coupled receptor FEX - mouse [M.musculus], ESTs,
					Weakly similar to Slit-1 protein [H.sapiens], Mus musculus, Similar to leucine-rich
					repeat-containing 3, clone MGC:30505 IMAGE:4481142, mRNA, complete cds,
					RIKEN cDNA 9530074E10 gene, slit homolog 1 (Drosophila), slit homolog 2
2167	15727	15727 NM_022953	u, v	slit homolog 1 (Drosophila)	(Drosophila), slit homolog 3 (Drosophila)
					EST, Weakly similar to S07723 immediate-early serum-responsive protein JE
					precursor - rat [R.norvegicus], expressed sequence Al323594, small inducible
			a, d, z, ee,	small inducible cytokine A2, small inducible cytokine A2	cytokine A2, small inducible cytokine A24, small inducible cytokine subfamily A (Cys-
2277	20448	20448 NM_031530	ff, jj, kk	(monocyte chemotactic protein 1)	Cys), member 24
					EST, Weakly similar to S07723 immediate-early serum-responsive protein JE
					precursor - rat [R.norvegicus], expressed sequence Al323594, small inducible
			a, z, ee, ff,	small inducible cytokine A2, small inducible cytokine A2	cytokine A2, small inducible cytokine A24, small inducible cytokine subfamily A (Cys-
2277	20449	20449 NM_031530	kk	(monocyte chemotactic protein 1)	Cys), member 24
				small inducible cytokine subfamily D (Cys-X3-Cys),	
				member 1 (fractalkine, neurotactin), small inducible	small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine,
2545	19077	19077 NM_134455	aa, bb	cytokine subfamily D, 1	neurotactin), small inducible cytokine subfamily D, 1
					EST, Moderately similar to SMO_HUMAN SMOOTHENED HOMOLOG
1801	20246	20246 NM_012807	l, m, s	smoothened homolog (Drosophila)	PRECURSOR [H.sapiens], smoothened homolog (Drosophila)
					Mus musculus brain and heart sodium channel beta 3 subunit mRNA, complete cds,
					sodium channel beta 3 subunit, sodium channel, voltage-gated, type I, beta
1993	20579	20579 NM_017288	aa, bb	sodium channel, voltage-gated, type I, beta polypeptide	polypeptide

TABLE 3	3			Control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	Atty, Ref. 44921-5090-01-WO/2105485
SEO	1 00	GenBank Acc.	0.1-1-31		
<u>.</u>	ופרפר וחלואס.	NO.	Iwodel Code	Wodel Code j⊓uman nomologous known Gene Name	Human Homologous sequence Ciuster Litte
					ESTs, Weakly similar to EAA3_RAT Excitatory amino acid transporter 3 (Sodium-
					dependent gluramate/aspartate transporter 3) (Exotatory amino-acid carrier 1)
					[K.norvegicus], Mus musculus adult male testis cuivA, Kirken full-length enriched
				•	library, clone:4931413K05:solute carrier family 1, member 1, full insert sequence,
					Rattus norvegicus mRNA for sodium-dependent neutral amino acid transporter,
				solute carrier family 1 (neuronal/epithelial high affinity	ASCT2, solute carrier family 1 (neuronal/epithelial high affinity glutamate
				glutamate transporter, system Xag), member 1, solute	transporter, system Xag), member 1, solute carrier family 1, member 1, solute
1664		21147 D63772	j. K, p	carrier family 1, member 1	carrier family 1, member 7
				solute carrier family 11 (proton-coupled divalent metal ion	
2279		1005 NM_031537	E,	transporters), member 1	
					Mus musculus strain ILS K-Cl cotransporter (Slc12a5) mRNA, complete cds, cation-
					chloride cotransporter 6, cation-chloride cotransporter 9, cation-chloride
				solute carrier family 12 (sodium/potassium/chloride	cotransporter-interacting protein 1, solute carrier family 12
				fransporters), member 2, solute carrier family 12,	(sodium/potassium/chloride transporters), member 2, solute carrier family 12,
2331		2114 NM_031798	aa, bb	member 2	member 2
				solute carrier family 16 (monocarboxylic acid	RIKEN cDNA 1110004H10 gene, RIKEN cDNA 1200003C15 gene, solute carrier
1779		20888 NM_012716	с, е	fransporters), member 1	family 16 (monocarboxylic acid transporters), member 1
				solute carrier family 16 (monocarboxylic acid	RIKEN cDNA 1110004H10 gene, RIKEN cDNA 1200003C15 gene, solute carrier
1779		20889 NM_012716	e, aa, bb	transporters), member 1	family 16 (monocarboxylic acid transporters), member 1
					solute carrier family 19 (folate transporter), member 1, solute carrier family 19
					(sodium/hydrogen exchanger), member 1, solute carrier family 19
	•			solute carrier family 19 (folate transporter), member 1,	(sodium/hydrogen exchanger), member 3, solute carrier family 19 (thiamine
				solute carrier family 19 (sodium/hydrogen exchanger),	Iransporter), member 2, solute carrier family 19 (thiamine transproter), member 2,
1996		23825 NM_017299	oc, dd	member 1	solute carrier family 19, member 3
				solute carrier family 2 (facilitated glucose transporter),	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute
2551		16248 NM_138827	y, z	member 1	carrier family 2 (facilitated glucose transporter), member 1
				solute carrier family 2 (facilitated glucose transporter),	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, solute
2551	ı	16249 NM_138827		member 1	carrier family 2 (facilitated glucose transporter), member 1

TABLE 3	3.	Tankin		A Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comment of the Comm	AND AND AND AND AND AND AND AND AND AND
SEO		GenBank Acc.			A control included in
൧	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					Homo sapiens, Similar to ust3, clone MGC:23972 IMAGE:4714598, mRNA, complete cds, Mus musculus, Similar to solute carrier family 22 (organic anion transporter), member 7, clone MGC:18877 IMAGE:4736568, mBNA, complete cds
					Rattus norvegicus mRNA for organic anion transporter 5, complete cds, expressed sequence Al648912 putative integral membrane transport 1971, solute carrier
1973		1510 NM_017224		solute carrier family 22 (organic anion transporter), member 6	family 22 (organic anion transporter), member 6, solute carrier family 22 (organic
					EST, Moderately similar to 503894 ADP, ATP carrier protein T3 [H.sapiens], EST,
					Weakly similar to A29132 ADP, ATP carrier protein T2 [H.sapiens], Homo sapiens,
					done IMAGE:5215220, mRNA, Mus musculus, Similar to CG4995 gene product,
					clone MGC:7958 IMAGE:3584570, mRNA, complete cds, RIKEN cDNA
					4933440H19 gene, folate transporter/carrier, solute carrier family 25 (mitochondrial
10		7		solute carrier family 25 (mitochondrial carrier; adenine	carrier; adenine nucleotide translocator), member 5, solute carrier family 25
င္ဆို	-	18018 D12//1	.†.g	nucleotide translocator), member 5	(mitochondrial carrier, adenine nucleotide translocator), member 6
					ESTs, Weakly similar to solute carrier family 29 (nucleoside transporters), member
7700	-04	700700		solute carrier family 29 (nucleoside transporters),	1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 4933435C21 gene, solute
1187	20/43	20/43 NIM 031684	a, x, z, KK	member 1	carrier family 29 (nucleoside transporters), member 1
Č	2040	000070	j, k, t, u, v, jj,	j, k, t, u, v, jj, solute carrier family 3 (activators of dibasic and neutral	solute carrier family 3 (activators of dibasic and neutral amino acid transport),
7007	20/34	20/34 NM_019283		amino acid transport), member 2	member 2
			, t, y, z,	solute carrier family 3 (activators of dibasic and neutral	solute carrier family 3 (activators of dibasic and neutral amino acid transport).
2022	20735	20735 NM_019283	호	amino acid transport), member 2	member 2
	•	٠			Rattus norvegicus mRNA for Na+/Pi-cotransporter type IIc, complete cds, Rattus
0	7007	000000		:	norvegious mRNA for NaPi-2 alpha, complete cds, expressed sequence Al649385,
7091	180/b	18076 NIM_013030	Sc, ad	solute carrier family 34 (sodium phosphate), member 1	solute carrier family 34 (sodium phosphate), member 1
				solute carrier family 4 (anion exchanger), member 1,	ESTs, Moderately similar to B3AT MOUSE BAND 3 ANION EXCHANGE PROTEIN
				solute carrier family 4, anion exchanger, member 1	[M.muśculus], expressed sequence Al503023, solute carrier family 4 (anion
1				(erythrocyte membrane protein band 3, Diego blood	exchanger), member 1, solute carrier family 4, anion exchanger, member 1
382	16335/	16335 AI045744	b, u, v	group)	(erythrocyte membrane protein band 3, Diego blood group)
				solute carrier family 4 (anion exchanger), member 2,	
9			:	solute carrier family 4, anion exchanger, member 2	solute carrier family 4 (anion exchanger), member 2, solute carrier family 4, anion
1920	74697	24697 NM_017048	u, v, ii	(erythrocyte membrane protein band 3-like 1)	exchanger, member 2 (erythrocyte membrane protein band 3-like 1)
		000000		solute carrier family 6 (neurotransmitter transporter,	
202	180947	24838/11/11/ UT/ ZUD	n, 1	laurne), member 6	solute carrier family 6 (neurotransmitter transporter, taurine), member 6

TABLE 3	ص ا		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mmの では、 100mm	Attv. Ref. 44921-5090-01-WO/2105485
SEQ ID	GLGC ID No.	GenBank Acc. No.	Model Code Human I	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1923		1876 NM_017052	w, x	sorbitol dehydrogenase, sorbitol dehydrogenase 1	ESTs, Highly similar to A54674 L-iditol 2-dehydrogenase [H.sapiens], sorbitol dehydrogenase, sorbitol dehydrogenase 1
0,00		NIM 040257	•	splicing factor, arginine/serine-rich 5, splicing factor,	IESTs, Weakly similar to SFR5 MOUSE SPLICING FACTOR, ARGININE/SERINE—RICH 5 [M.musculus], Mus musculus, clone MGC:36924 IMAGE:4945988, mRNA, complete cds, RIKEN cDNA 1210001E11 gene, RIKEN cDNA 6330415C05 gene, splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate splicing factor), splicing factor, arginine/serine-rich 4, splicing factor, arginine/serine-rich 5, splicing
1948	1 1	16681 NM_017136	.:=	squalene epoxidase	Hackey, arginited Sering-Tiol 13 (Ship44), mxs) Homo sapiens cDNA FLJ30795 fis, clone FEBRA2001124, squalene epoxidase
2294		14542 NM_031596		squamous cell carcinoma antigen recognised by T cells, squamous cell carcinoma antigen recognized by T-cells 1	
2294		14543 NM_031596	v , u , d	squamous cell carcinoma antigen recognised by T cells, squamous cell carcinoma antigen recognized by T-cells 1	
865	ı	20924 AI012832	==	stannin	RIKEN cDNA 2810407J07 gene, stannin
2491	15707 1	15707 NM_058208	p	STAT induced STAT inhibitor-2, cytokine inducible SH2-containing protein 2	ESTs, Weakly similar to cytokine inducible SH2-containing protein CIS4 [Mus musculus] [M.musculus], JAK binding protein, RIKEN cDNA 5830401B18 gene, STAT induced STAT inhibitor-4, Socs-5, cytokine inducible SH2-containing protein 2
				steroid sulfatase, steroid sulfatase (microsomal),	ESTs, Highly similar to 137186 arylsulfatase D [H.sapiens], ESTs, Weakly similar to STS MOUSE STERYL-SULFATASE PRECURSOR [M.musculus], ESTs, Weakly similar to STS_RAT STERYL-SULFATASE PRECURSOR (STEROID SULFATASE) (STERYL-SULFATE SULFOHYDROLASE) (ARYLSULFATASE C) (ASC) [R.norvegicus], arylsulfatase E (chondrodysplasia punctata 1), arylsulfatase F,
1771	21087	21087 NM_012661	oc, dd	arylsulfatase C, isozyme S	steroid sulfatase, steroid sulfatase (microsomal), anylsulfatase C, isozyme S
1236		15393 A1170663	cc, dd	sterol regulatory element binding transcription factor 2	sterol regulatory element binding factor 1, sterol regulatory element binding factor 2, sterol regulatory element binding transcription factor 2
					ESTs, Weakly similar to S35637 high mobility group 1 protein homolog - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:4948318, mRNA, partial cds, Mus musculus, clone IMAGE:5355658, mRNA, structure specific recognition
1694	- 1	17508 L08814	·==	structure specific recognition protein 1	protein 1

TABLE 3	23	:		から できる これの これの はいない はいかい はいかい はいかい はいかい はいかい はいかい はいかい	1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1000 A 1
SEO	:	GenBank Acc.			
□.	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2425		18175 NM_053752	aa, bb	succinate-CoA ligase, GDP-forming, alpha subunit	
					Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, RIKEN cDNA
				sulfotransferase family 1A, phenol-preferring, member 1,	sultotransferase family 1A, phenol-preferring, member 1, [1110030E23 gene, sultotransferase family 1A, phenol-preferring, member 1,
				sulfotransferase family, cytosolic, 1A, phenol-preferring,	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase
2336		4748 NM_031834	s, t, aa, bb	member 1	family, cytosolic, 1A, phenol-preferring, member 2
					Aryl sulfotransferase cytosolic, 1A, phenol-preferring, member 3, RIKEN cDNA
				sulfotransferase family 1A, phenol-preferring, member 1,	sulfotransferase family 1A, phenol-preferring, member 1,  1110030E23 gene, sulfotransferase family 1A, phenol-preferring, member 1,
				sulfotransferase family, cytosolic, 1A, phenol-preferring,	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1, sulfotransferase
2336		4749 NM_031834	t, bb	member 1	family, cytosolic, 1A, phenol-preferring, member 2
				superoxide dismutase 1, soluble, superoxide dismutase	EST, Weakly similar to SODC MOUSE SUPEROXIDE DISMUTASE [M.musculus],
1922	- 1	20875NM_017050	맽	1, soluble (amyotrophic lateral sclerosis 1 (adult))	superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))
				superoxide dismutase 1, soluble, superoxide dismutase	EST, Weakly similar to SODC MOUSE SUPEROXIDE DISMUTASE [M.musculus],
1922	20876	20876 NM_017050	ľ	<ol> <li>soluble (amyotrophic lateral sclerosis 1 (adult))</li> </ol>	superoxide dismutase 1, soluble (amyotrophic lateral sclerosis 1 (adult))
2164	18098	18098 NM 022947		suppressor of K+ transport defect 3, suppressor of potassium transport defect 3	
					ESTs, Weakly similar to down-regulated by v-src gene [Rattus norvegicus]
					[R.norvegicus], Homo sapiens mRNA; cDNA DKFZp586N2022 (from clone
					DKFZp586N2022), RIKEN cDNA 1110039C07 gene, RIKEN cDNA 2610001E17
				sushi-repeat-containing protein, sushi-repeat-containing	gene, sushi-repeat protein, sushi-repeat-containing protein, sushi-repeat-containing
2130	4601	4601 NM_022524	l, m	protein, X chromosome	protein, X chromosome
					SWI/SNF related, matrix associated, actin dependent regulator of chromatin,
				SWI/SNF related, matrix associated, actin dependent	subfamily d, member 2, SWI/SNF related, matrix associated, actin dependent
833	15917	15917 AI011498	٩	regulator of chromatin, subfamily d, member 2	regulator of chromatin, subfamily d, member 3
					ESTs, Moderately similar to SNG1_RAT SYNAPTOGYRIN 1 (P29) [R.norvegicus],
2027	- 1	20440 NM_019166	b, I, m	synaptogyrin 1	synaptogyrin 1, synaptogyrin 3, synaptogyrin 4

TABLE 3	3		我们 外衛馬琴 计编辑	Ath. Ref 44921-5090-01-WO/2105485
SEQ	GenBank Acc.	Model Code Himsp	Homologous Known Gene Name	Chinaton Tillo
2	פרפה וס ואם.	anno janojai	- 5	numan nomogous sequence ciuster mie
				LES1, Weakly similar to JW0105 synaptojanin 2 aipha protein - mouse [M.musculus], ESTs, Moderately similar to PW0049 synaptojanin 2 zeta protein - mouse
				(fragment) [M.musculus], ESTs, Weakly similar to JW0105 synaptojanin 2 alpha
				protein - mouse [M.musculus], ESTs, Weakly similar to T42384 inositol-1,4,5-
				trisphosphate 5-phosphatase [M.musculus], Homo sapiens cDNA: FLJ23105 fis,
				clone LNG07677, inositol polyphosphate 5-phosphatase, oculocerebrorenal
				syndrome of Lowe, phosphatidylinositol (4,5) bisphosphate 5-phosphatase
				homolog; phosphatidylinositol polyphosphate 5-phosphatase type IV,
2352	1171 NM_032071	y, z	synaptojanin 2	phosphatidylinositol (4,5) bisphosphate 5-phosphatase, A, synaptojanin 2
2015	``	b, l, m, u, v	synaptotagmin 3, synaptotagmin III	
1769		j, k, y, z	syndecan 4, syndecan 4 (amphiglycan, ryudocan)	syndecan 4, syndecan 4 (amphiglycan, ryudocan)
2250	1265 NM_031124	n, v	syntaxin 3, syntaxin 3A	syntaxin 3, syntaxin 3A
			synuclein, alpha, synuclein, alpha (non A4 component of	
2028	7486 NM_019169	n, o	amyloid precursor)	synuclein, alpha, synuclein, alpha (non A4 component of amyloid precursor)
				ESTs, Weakly similar to S58222 PQ-rich protein [H.sapiens], T-cell death
				associated gene, pleckstrin homology-like domain, family A, member 1, pleckstrin
			T-cell death associated gene, pleckstrin homology-like	homology-like domain, family A, member 3, tumor suppressing subtransferable.
1963		p, q	domain, family A, member 1	candidate 3, tumor-suppressing subchromosomal transferable fragment 3
2620	25593 U26310	66	tensin	
				RIKEN cDNA 4833428C18 gene, RIKEN cDNA 4930584N22 gene, hypothetical
				protein BC007901, testis specific protein kinase 1, testis-specific kinase 1, testis-
2291	21715 NM_031578	aa	testis specific protein kinase 1, testis-specific kinase 1	specific kinase 2
2299	24234 NM_031614	r, y, z, jj. kk	r, y, z, jj, kk thioredoxin reductase 1	thioredoxin reductase 1, thioredoxin reductase 2
2299	24235 NM_031614	y, z, kk	thioredoxin reductase 1	thioredoxin reductase 1, thioredoxin reductase 2
2140	21076 NM_022584	e, w, x	thioredoxin reductase 2	thioredoxin reductase 2
420	12031 AA893860	), Z	threonyl-tRNA synthetase	threonyl-tRNA synthetase
				ESTs, Highly similar to THPA_HUMAN THYMOPOIETIN ALPHA [H.sapiens],
1815	16871 NM_012887	y, II	thymopoietin	RIKEN cDNA 5630400D24 gene, thymopoietin
2077	20816 NM_021261	ပ	thymosin, beta 10	
		, <mark>а</mark> , ц	thyrotropin releasing hormone, thyrotropin-releasing	
1855	11113 NM_013046	۷, 99	hormone	thyrotropin releasing hormone, thyrotropin-releasing hormone
		η, ο, y, z,	thyrotropin releasing hormone, thyrotropin-releasing	
1855	11114 NM_013046	쏫	hormone	thyrotropin releasing hormone, thyrotropin-releasing hormone

TABLE 3	3				一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
SEQ	ŀ	GenBank Acc.	,		
	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2002		243 NM 021989	- q	fissua inhibitor of metallonovienase 2	Homo sapiens mRNA; cDNA DKFZp761A0617 (from clone DKFZp761A0617), tissue inhibitor of matallogocal 2
		2001-20-	. 6 61 61	tissue inhibitor of metalloproteinase 3, tissue inhibitor of	ייניטיני ווויינייני ער היינימייני אין איניינייני איניינייני איניינייניינייניינייניינייניינייניינייני
				metalloproteinase 3 (Sorsby fundus dystrophy,	lissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3
229		17236 AA858903	s, t, gg	pseudoinflammatory)	(Sorsby fundus dystrophy, pseudoinflammatory)
				tissue inhibitor of metalloproteinase 3, tissue inhibitor of	
				metalloproteinase 3 (Sorsby fundus dystrophy,	tissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3
512		17231 AA924107	:==	pseudoinflammatory)	(Sorsby fundus dystrophy, pseudoinflammatory)
				tissue inhibitor of metalloproteinase 3, tissue inhibitor of	
				metalloproteinase 3 (Sorsby fundus dystrophy,	lissue inhibitor of metalloproteinase 3, tissue inhibitor of metalloproteinase 3
697		17232 AA965161	=	pseudoinflammatory)	(Sorsby fundus dystrophy, pseudoinflammatory)
					ESTs, Moderately similar to A40493 DNA topoisomerase [H.sapiens], ESTs, Weakly
				topoisomerase (DNA) II alpha, topoisomerase (DNA) II	similar to topoisomerase (DNA) II alpha [Rattus norvegicus] [R.norvegicus],
476		23778 AA899854	ပ	alpha (170kD)	topoisomerase (DNA) II alpha, topoisomerase (DNA) II beta
					ESTs, Moderately similar to A40493 DNA topoisomerase [H.sapiens], ESTs, Weakly
				topoisomerase (DNA) II alpha, topoisomerase (DNA) II	similar to topoisomerase (DNA) II alpha [Rattus norvegicus] [R.norvegicus],
2094		23780 NM_022183	ij, Ķ	alpha (170kD)	topoisomerase (DNA) II alpha, topoisomerase (DNA) II beta
				•	EST, Highly similar to TRANSCRIPTION FACTOR 4 [M.musculus], transcription
2378		622 NM_053369	a, j, k	transcription factor 4	factor 4
					EST, Highly similar to TRANSCRIPTION FACTOR 4 [M.musculus], transcription
2378		623 NM_053369	r, hh	transcription factor 4	factor 4
				transforming growth factor, beta 1, transforming growth	
2079		18729 NM_021578		factor, beta 1 (Camurati-Engelmann disease)	
					Homo sapiens cDNA FLJ30635 fis, clone CTONG2002520, expressed sequence
1723		457 M60666	aa	tropomyosin 1 (alpha), tropomyosin 1, alpha	Al854628, expressed sequence C76867, tropomyosin 4, tuftelin 1
					Homo sapiens cDNA FLJ30635 fis, clone CTONG2002520, expressed sequence
2018		455 NM_019131	b, u, v	tropomyosin 1 (alpha), tropomyosin 1, alpha	AI854628, expressed sequence C76867, tropomyosin 4, tuffelin 1
					Homo sapiens cDNA FLJ30635 fis, clone CTONG2002520, expressed sequence
2018		461 NM_019131	b, I, m	tropomyosin 1 (alpha), tropomyosin 1, alpha	AI854628, expressed sequence C76867, tropomyosin 4, tuftelin 1
1773		24854 NM_012676	aa, bb	troponin T2, cardiac	EST, Weakly similar to TRT2 MOUSE TROPONIN T, CARDIAC MUSCLE ISOFORMS [M.musculus], hypothetical protein FLJ10498

TABLE 3	3		:		Atty. Ref. 44921:5090-01-WO/2105485
SEO ID	GLGC ID No.	GenBank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
		·			tumor necrosis factor receptor superfamily, member 11a, tumor necrosis factor receptor superfamily, member 11a, activator of NFKB, tumor necrosis factor
					receptor superfamily, member 11b (osteoprotegerin), tumor necrosis factor receptor
181		24617 NM 012870	120	tumor necrosis factor receptor superfamily, member 11b (osteoprotederin)	superfamily, member 21, tumor necrosis factor receptor superfamily, member 5, firmor necrosis factor recentor superfamily member 6h decov
				TYRO3 protein tyrosine kinase, TYRO3 protein tyrosine	AXL receptor tyrosine kinase, TYRO3 protein tyrosine kinase, TYRO3 protein
1935		23665 NM_017092	ا ا ۱, ۷	kinase 3	tyrosine kinase 3
					ESTs, Highly similar to 138947 14-3-3 protein epsilon isoform [H.sapiens], tyrosine 3-
				tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon
2295		19341 NM_031603	h, I	activation protein, epsilon polypeptide	polypeptide
					ESTs, Highly similar to A Chain A, 14-3-3 ZetaPHOSPHOPEPTIDE COMPLEX
		<u>.</u> .		tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase∫(H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation
554		3817 AA926328	p, q	activation protein, zeta polypeptide	protein, zeta polypeptide
					ESTs, Highly similar to A Chain A, 14-3-3 ZetaPHOSPHOPEPTIDE COMPLEX
				tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase [H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation
1846		25279 NM_013011	p, q	activation protein, zeta polypeptide	protein, zeta polypeptide
					ESTs, Highly similar to A Chain A, 14-3-3 ZetaPHOSPHOPEPTIDE COMPLEX
				tyrosine 3-monooxygenase/tryptophan 5-monooxygenase	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase [H.sapiens], tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation
1846		3404 NM_013011	p, q	activation protein, zeta polypeptide	protein, zeta polypeptide
					EST, Weakly similar to UCRI_HUMAN UBIQUINOL-CYTOCHROME C
					REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL PRECURSOR
					[H.sapiens], ESTs, Moderately similar to UCRL_HUMAN UBIQUINOL-
					CYTOCHROME C REDUCTASE IRON-SULFUR SUBUNIT, MITOCHONDRIAL
				ubiquinol-cytochrome c reductase, Rieske iron-sulfur	PRECURSOR [H.sapiens], RIKEN cDNA 4430402G14 gene, ubiquinol-cytochrome
1712		15049 M24542	aa, bb	polypeptide 1	c reductase, Rieske iron-sulfur polypeptide 1
					UDP glycosyltransferase 1 family, polypeptide A6, UDP glycosyltransferase 1
2477		15125 NM_057105	jj, ₹ <del>,</del> =	UDP glycosyltransferase 1 family, polypeptide A6	family, polypeptide A8
			·		Mus musculus, Similar to xylosylprotein beta1,4-galactosyltransferase, polypeptide
					7 (galactosyltransferase I), clone MGC:28643 IMAGE:4224150, mRNA, complete
				UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase,	cds, UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1, UDP-
133	- 1	23828 AA817823	:==	polypeptide 2	Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2
2426		7927 NM 053765	70	UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase	UDP-N-acet/ldlucosamine-2-eoimerase/N-acet/lmannosamine kinase
7	١	20100-1111	,		

TABLE 3	3		24	2 1000 1000 1000 1000 1000 1000 1000 10	日本 AND AND AND AND AND AND AND AND AND AND
SEO.		GenBank Acc.			
	S S	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2023		278 NM_019150		urocortin	urocortin
2688		19279 Y00350	a, aa, bb, jj, kk	uroporphyrinogen decarboxylase	
				VAMP (vesicle-associated membrane protein)-associated	
				protein A (33kD), vesicle-associated membrane protein,	VAMP (vesicle-associated membrane protein)-associated protein A (33kD), vesicle-
1215		6888 AI169615	s, t	associated protein A (33 kDa)	associated membrane protein, associated protein A (33 kDa)
				vesicle-associated membrane protein 1, vesicle-	
				associated membrane protein 1 (synaptobrevin 1),	
	-			vesicle-associated membrane protein 2, vesicle-	vesicle-associated membrane protein 1, vesicle-associated membrane protein 2.
1439	16203,	16203 AI229196	w, x, cc, dd	associated membrane protein 2 (synaptobrevin 2)	vesicle-associated membrane protein 4
:				vesicle-associated membrane protein 2, vesicle-	
1772	16197	16197 NM_012663	j, k	associated membrane protein 2 (synaptobrevin 2)	
					ESTs, Weakly similar to vesicle-associated membrane protein 3 [Rattus
					norvegicus] [R.norvegicus], vesicle-associated membrane protein 3, vesicle-
				vesicle-associated membrane protein 3, vesicle-	associated membrane protein 3 (cellubrevin), vesicle-associated membrane protein
2472	23250	23250 NM_057097	f, g	associated membrane protein 3 (cellubrevin)	7
			-	vitronectin, vitronectin (serum spreading factor,	
2026	243621	24362 NM_019156	<u>;</u>	somatomedin B, complement S-protein)	
			ټ_		
1956	219751	21975 NM_017154	o, y, z, kk	xanthene dehydrogenase, xanthine dehydrogenase	
9	- 7	0170			ESTs, Weakly similar to S10471 cMG1 protein - rat [R.norvegicus], zinc finger
1300	20919	Z0919 NM_01/1/2	В	zinc finger protein 36, C3H type-like 1	protein 36, C3H type-like 1, zinc finger protein 36, C3H type-like 2
				zinc finger protein 36, zinc finger protein 36, C3H type,	
2511	25730	25730 NM_133290	j, k, p, q	homolog (mouse)	zinc finger protein 36, zinc finger protein 36, C3H type, homolog (mouse)
					2,4-dienoyl CoA reductase 1, mitochondrial, 2,4-dienoyl CoA reductase 2,
					peroxisomal, 2-4-dienoyl-Coenzyme A reductase 2, peroxisomal, RIKEN cDNA
2541	8692	7	ᄔ		1810027P18 gene, putative peroxisomal 2,4-dienoyl-CoA reductase
177	19451/	19451 AA819788	ပ		28kD interferon responsive protein, RIKEN cDNA 5830458K16 gene
					3(2), 5-bisphosphate nucleotidase 1, ESTs, Moderately similar to INPP MOUSE
					INOSHOL POLYPHOSPHATE 1-PHOSPHATASE [M.musculus], bisphosphate 3
1646	02040	7750001 A 105050			nucleotidase 1, hypothetical protein FLJ20421, inositol polyphosphate-1-
2	101707		11, 0		pnospnatase

GLGC  D   No.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   Gen	TABLE 3	3		調のは、	- Atty. Ref. 4492	Atty: Ref. 44921-5090-01-WO/2105485
15580 M33648 y, z  17738 NM_053985 g  21950 AI013861 a, h, I  1238 NM_019333 gg  13486 NM_020306 aa, bb  20724 NM_031753 d  388 NM_02486 u, v  19661 NM_021686 n  4536 AA899491 e  1271 NM_133593 kk 24061 NM_031708 e  1271 NM_133593 kk 24061 NM_024150 p, q, y, ee, ff  4145 NM_022518 jj, kk  4151 NM_022518 jj, kk  4151 NM_024151 f, m	SEQ ID	GLGC ID	GenBank Acc. No.	Model Code	Human Homologous Sequence Cluster Title	
1739 NM_053995 g 21950 Al013881 a, h, l 1238 NM_019333 gg 13466 NM_0231753 d 338 NM_024486 u, v 19661 NM_021686 n 4536 AA699491 e 4536 AA699491 e 1271 NM_133593 kk 24061 NM_031708 e 15212 Al229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 jj, kk 1751 NM_024151 f	1715		M33648	y, z	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2, 3-hydr Coenzyme A synthase 2 (mitochondrial)	-3-methylglutaryl-
17739 NM_053995 g 21950 AI013861 a, h, I 1238 NM_01333 gg 13468 NM_020306 aa, bb 20724 NM_031753 d 938 NM_02486 u, v 19661 NM_02486 u, v 19661 NM_02486 u, v 1271 NM_13593 kk 24081 NM_031708 e 1727 NM_13593 kk 1742 NM_021508 ji, kk 1745 NM_022518 ji, kk 4151 NM_022518 b, l, m 1757 NM_022518 b, l, m					3-hydroxybutyrate dehydrogenase (heart, mitochondrial), E8 BDH RAT D-beta-hydroxybutyrate dehydrogenase, mitocho	, Weakly similar to rial precursor (BDH)
17739 NM_053995 9  21950 AI013861 a, h, l  1238 NM_020306 aa, bb  20724 NM_031753 d  938 NM_024486 u, v  19661 NM_024486 u, v  19661 NM_021696 n  4636 AA899491 e  4636 AA899491 e  4636 AA899491 e  41571 NM_133593 kk  24061 NM_021708 e  17272 AI229753 ee, ff  4145 NM_022518 jj, kk  4151 NM_022518 b, l, m  17517 NM_024150 f, m					(3-hydroxybutyrate dehydrogenase) [R.norvegicus], RIKEN	VA 0610039E24
21950 AI013861 a, h, l  1238 INM_01333 gg 13486 INM_020306 aa, bb 20724 INM_021686 n 4636 AA899491 e 4636 AA899491 e 524081 INM_031708 e 15212 AI229753 ee, ff 1742 INM_022518 jj, kk 4145 INM_022518 jj, kk 4151 INM_022518 b, l, m 17517 INM_024151 f	2465		NM 053995		gene, RIKEN cDNA 2310032J20 gene, retinol dehydrogena:	7, retinol
21950 AI013861 a, h, l  1238 INM_019333 gg  13486 INM_020306 aa, bb  20724 INM_024486 u, v  19661 INM_02486 u, v  19661 INM_021686 n  4636 AA899491 e  4636 AA899491 e  24081 INM_031708 e  15212 AI229753 ea, ff  1742 INM_024150 p, q, y, ea, ff  4145 INM_022518 jj, kk  4151 INM_022518 jj, kk  4151 INM_022518 jj, kk				b	3-hydroxyisobutyrate dehydrogenase, ESTs, Highly similar t	3HI_HUMAN 3-
71950 AI013861 a, h, l  1238 NM_019333 gg 13486 NM_020306 aa, bb 20724 NM_031753 d 938 NM_02486 u, v 19661 NM_021686 n 4636 AA899491 e 24081 NM_031708 e 24081 NM_031708 e 17212 AI229753 ee, ff 1742 NM_022518 jj, kk 4145 NM_022518 jj, kk 4151 NM_022518 jj, kk 17517 NM_024150 p, q, y, ee, ff 17517 NM_024151 f				•	HYDROXYISOBUTYRATE DEHYDROGENASE, MITOCHO	IRIAL PRECURSOR
1238 NM_019333 gg 13486 NM_020306 aa, bb 20724 NM_031753 d 938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 4636 AA899491 e 24081 NM_031708 e 17212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 jj, kk 4151 NM_022518 jj, kk	88		AI013861	a, h, l	(HIBADH) [H.sapiens], RIKEN cDNA 3930401K13 gene	
1238 NM_019333 gg 13486 NM_020306 aa, bb 20724 NM_031753 d 938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 4636 AA899491 e 24081 NM_133593 kk 24081 NM_031708 e 15212 A1229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4151 NM_022518 jj, kk 4151 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f					6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1, 6-p	sphofructo-2-
13486 NM_020306 aa, bb  20724 NM_031753 d 938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 4636 AA899491 e 1271 NM_133593 kk 24081 NM_031708 e 15212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4151 NM_022518 jj, kk 4151 NM_022518 jj, kk 4151 NM_024151 f	2060		NM 019333	8	kinase/ifuctose-2,o-pipnospnatase 4, ESTs, Woderately sim  6PF-2-K/FRU-2 6-P2ASF   IVFR ISOZYMF IM musculus	to FZ6L MOUSE
13486 NM_020306 aa, bb  20724 NM_031753 d  938 NM_02486 u, v  19661 NM_021686 n  4636 AA899491 e  4636 AA899491 e  1271 NM_133593 kk  24081 NM_031708 e  15212 A1229753 ee, ff  1742 NM_024150 p, q, y, ee, ff  4151 NM_022518 jj, kk  4151 NM_022518 jj, kk					a disintegrin and metalloproteinase domain 17, a disintegrin	d metalloproteinase
20724 NM_031753 d 938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 4636 AA899491 e 24081 NM_133593 kk 24081 NM_031708 e 15212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f	2076		NM_020306	aa, bb	domain 17 (tumor necrosis factor, alpha, converting enzyme	-
20724 NM_031753 d 938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 4636 AA899491 e 24081 NM_133593 kk 24081 NM_031708 e p; q, t, y, z, 15212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f					activated leucocyte cell adhesion molecule, activated leukoc	cell adhesion
938 NM_024486 u, v 19661 NM_021686 n 4636 AA899491 e 1271 NM_133593 kk 24081 NM_031708 e 15212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f	2323	8	NM_031753	Q	molecule	
19661 NM_021686       n         4636 AA899491       e         4636 AA899491       e         1271 NM_133593       kk         24081 NM_031708       e         p, q, t, y, z,         15212 AI229753       ee, ff         4145 NM_024150       p, q, y, ee, ff         4151 NM_022518       jj, kk         4151 NM_024151       f	2198		NM_024486	u, v	activin A receptor, type 1, activin A receptor, type I	
19661 NM_021686					activin receptor interacting protein 1, connector enhancer of	R2, expressed
4636 AA899491 e  4636 AA899491 e  24081 NM_133593 kk 24081 NM_031708 e  p, q, t, y, z,  15212 AI229753 ee, ff  1742 NM_024150 p, q, y, ee, ff  4145 NM_022518 jj, kk  4151 NM_022518 b, l, m	2083		NM_021686	L	sequence AA407180, phosphoinositide-binding protein PIP3	
1271 NM_133593 kk 24081 NM_031708 e	472		AA899491	a	adaptor-related protein complex 1, mu 1 subunit	
24081 NM_031708	2532		NM 133593	a, ee, ff, jj, kk	adaptor-related protein complex 3, mu 1 subunit, adaptor-rel	d protein complex
15212 AI229753 ee, ff 1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 b, l, m	2317	2	NM_031708	Ð	adhesion regulating molecule 1	
1742 NM_024150 p, q, y, ee, ff 4145 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f	1445		A1229753	p, q, t, y, z, ee, ff	ADP-ribosylation factor 1, ADP-ribosylation factor 2, ARF pro	
4145 NM_022518 jj, kk 4151 NM_022518 b, l, m 17517 NM_024151 f	2178		NM 024150	99	ADP-ribosylation factor 1 ADP-ribosylation factor 2 ARF pro	
4151NM_022518 b, i, m	24.07		MA 000540	13	ADP-ribosylation factor 1, ADP-ribosylation-like 6, ESTs, We	y similar to ADP-
4151 NM_022518 b, l, m 17517 NM_024151 f	7717		Nivi_022010	JI, NA	ADP-rihosylation factor 1 ADP-rihosylation factor 1 ADP-rihosylation fike 8 FSTs Ma	e 120034
17517 NM_024151  f	2127		NM_022518	m, l, d	RIBOSYLATION FACTOR 1 [M.musculus], expressed seque	7 January 12 April - e T25534
	2179		NM_024151	J.	ADP-ribosylation factor 4	

SEG   GenBank Acc.   Model Code   Human Homologous Known Gene Name   2180   21696 NM_024152   y, z			Attv. Ref. 44921-50901.01-0105485
21696 NM_024152 20327 AA926265 727 NM_057123 2063 NM_053682 3094 AI179700 16074 AA874874	Model Code Human Homologous Know	٠	Human Homologous Sequence Cluster Title
21696 NM_024152 20327 AA926265 727 NM_057123 2063 NM_053682 3094 AI179700 16074 AA874874			ADP-ribosylation factor 6, ESTs, Weakly similar to ARF6_HUMAN ADP-RIBOSYLATION FACTOR 6 [M.musculus], ESTs, Weakly similar to ARF6_HUMAN
20327 AA926265 727 NM_057123 2063 NM_053682 3094 AI179700 16074 AA874874			ADP-ribosylation factor 6 [R.norvegicus], RIKEN cDNA 1110033P22 gene, RIKEN cDNA 2310075M17 gene, RIKEN cDNA 9130014L17 gene, SAR1 protein, SAR1a
727 NM_057123 2063 NM_053682 3094 A1179700 16074 AA874874	c, dd		Some normal (a. carevisida), hypometical protein r L222333 ADP-ribosylation factor-like 5, ADP-ribosylation-like 6, expressed sequence 175534 hypothetical protein DKF7n4341 1123 similar to mouse Arib
727 NM_057123 2063 NM_053682 3094 A1179700 16074 AA874874			AFG3 ATPase family gene 3-like 1 (yeast), BCS1-like (yeast), EST, Weakly similar to PRS4 HIMAN 26S protease requiatory subjuit 4 (P26S4) (M musculus) ESTs
727 NM_057123 2063 NM_053682 3094 A1179700 16074 AA874874			Highly similar to PRS4_HUMAN 26S protease regulatory subunit 4 (P26S4)  [Highly similar to PRS4_HUMAN 26S protease regulatory subunit 4 (P26S4)  [Highly sapiens] Homo sapiens cDNA El 131926 fis clone NT28P7005502 moderately
727 NM_057123 2063 NM_053682 3094 A1179700 16074 AA874874			similar to Homo sapiens mRNA for paraplegin-like protein, protease (prosome,
2063 NM_053682 3094 A1179700 16074 AA874874	ţ.		macropain) 26S subunit, ATPase 1, proteasome (prosome, macropain) 26S subunit, ATPase, 1
2063 NM_053682 3094 A1179700 16074 AA874874			AFG3 ATPase family gene 3-like 2 (yeast), AFG3(ATPase family gene 3)-like 1 (yeast) Mis misculius clone IMAGE-5040761 mBNA parial cds VME3 like 1 (S
2063 NM_U33682 3094 A1179700 16074 AA874874			cerevisiae), spastic paraplegia 7, paraplegin (pure and complicated autosomal
3094 A1179700 16074 AA874874			recessive)
3094 A1179700 16074 AA874874			Agrin, ES IS, Weakty similar to A38096 periecan precursor [H.sapiens], ES IS, Weakty similar to BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE
3094 A1179700 16074 AA874874			PROTEOGLYCAN CORE PROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to PGBM HUMAN BASEMENT MEMBRANE-SPECIFIC HEPARAN
3094 AI179700 16074 AA874874			SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR (H.sapiens), Mus
3094 A1179700 16074 AA874874			musculus, clone IMAGE:3494258, mRNA, partial cds, heparan sulfate proteoglycan
3094 A1179700 16074 AA874874			2 (perlecan), perlecan (heparan sulfate proteoglycan 2), serine protease inhibitor,
16074 AA874874	m') '		Kazar type, 5, staloadhesin, transmembrane protein with EGF-like and two follistatin- like domains 1
	b'		alcohol dehydrogenase 5, alcohol dehydrogenase 5 (class III), chi polypeptide
			aldehyde dehydrogenase 3 family, member B1, aldehyde dehydrogenase 3 family, member B2, aldehyde dehydronenase 3 family, member B1, aldehyde
2343 24644 NM_031972 cc, dd	c, dd		dehydrogenase family 3, subfamily A1

TABLE 3	3			1. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	Attv. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			
≘	GLGC ID No.	No.	Model Code	Model Code Human Hömologöus Known Gene Name	Human Homologous Sequence Cluster Title
					Aipha-2-macroglobulin, CCR4 carbon catabolite repression 4-like (S. cerevisiae), ESTs, Weakly similar to A2MG MOUSE ALPHA-2-MACROGLOBULIN
					PRECURSOR [M.musculus], Homo sapiens, clone MGC:1119 IMAGE:2959975,
					mRNA, complete cds, Mus musculus, clone MGC:29037 IMAGE:3598248, mRNA,
					complete cds, Mus musculus, clone MGC:29167 IMAGE:5052974, mRNA, complete
					cds, alpha-2-macroglobulin, carbon catabolite repression 4 homolog (S. cerevisiae),
485		4725 AA900290	t, y, z, ee, ff		pregnancy-zone protein
					alpha-2-macroglobulin, murinoglobulin 1, murinoglobulin 2, murinoglobulin,
2171		8269 NM_023103	b, I, m		pseudogene 1
1876		6649 NM_013132	c, gg		annexin A5
					APC11 anaphase promoting complex subunit 11 homolog (yeast), ESTs, Highly
					similar to T51146 ring-box protein 1 [H.sapiens], ESTs, Weakly similar to T51146
222		15260 AA858518	f, g		ring-box protein 1 [H.sapiens], ring finger protein 7, ring-box 1
					ARPZ actin-related protein z homólog (yeast), ARP3 actin-related protein 3 nomolog
					(yeast), EST, Weakly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin)
					[R.norvegicus], ESTs, Highly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1
					[M.musculus], ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs,
					Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], Homo
					sapiens cDNA FLJ31247 fis, clone KIDNE2005296, weakly similar to ACTIN,
					CYTOPLASMIC 1, Homo sapiens cDNA FLJ32120 fis, clone PEBLM1000068,
	<del></del> -				highly similar to ACTIN, CYTOPLASMIC TYPE 5, Homo sapiens mRNA; cDNA
	*				DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene,
					actin, beta, actin, beta, cytoplasmic, calcitonin gene-related peptide-receptor
687		18830 AA964496	a, z		component protein, expressed sequence AV259599

TABLE 3	3			(現代では、) (議論)	1. 在空间	Attv. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.		, a		
Ω	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name		Human Homologous Sequence Cluster Title
						AKKZ actin-related protein z nomotog (yeast), AKK3 actin-related protein 3 nomotog
						(yeast), EST, Weakly similar to ACTB_HUMAN Actin, cytoplasmic 1 (Beta-actin)
		•				[R.norvegicus], ESTs, Highly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1
						[M.musculus], ESTs, Weakly similar to A29861 actin gamma [H.sapiens], ESTs,
						Weakly similar to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 [M.musculus], Homo
						sapiens cDNA FLJ31247 fis, clone KIDNE2005296, weakly similar to ACTIN,
						CYTOPLASMIC 1, Homo sapiens cDNA FLJ32120 fis, clone PEBLM1000068,
			•			highly similar to ACTIN, CYTOPLASMIC TYPE 5, Homo sapiens mRNA; cDNA
						DKFZp434B2115 (from clone DKFZp434B2115), RIKEN cDNA 1700052K15 gene,
						actin, beta, actin, beta, cytoplasmic, calcitonin gene-related peptide-receptor
1137		18831 AI104357	qq			component protein, expressed sequence AV259599
230		5867 AA858953	¥			asparaginyl-tRNA synthetase, hypothetical protein FLJ23441
						AT2 receptor-interacting protein 1, Homo sapiens cDNA FLJ32157 fis, clone
						PLACE6000205, moderately similar to TRANSCRIPTIONAL REPRESSOR
1383		15091 AI178740	cc, dd			PROTEIN YY1, YY1 transcription factor
						ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit, ATP
						synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin
						sensitivity conferring protein), EST, Weakly similar to ATPO_HUMAN ATP
						SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR,
						MITOCHONDRIAL [H.sapiens], ESTs, Highly similar to ATPO_HUMAN ATP
						SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR,
						MITOCHONDRIAL [H.sapiens], ESTs, Moderately similar to ATPO_HUMAN ATP
						SYNTHASE OLIGOMYCIN SENSITIVITY CONFERRAL PROTEIN PRECURSOR,
2559		7395 NM_138883	<b>L</b>			MITOCHONDRIAL [H.sapiens]
						ATPase, Ca++ transporting, type 2C, member 1, ATPase, Ca++ transporting,
						ubiquitous, Homo sapiens cDNA: FLJ21771 fis, clone COLF7779, Homo sapiens
						mRNA; cDNA DKFZp434L231 (from clone DKFZp434L231), KIAA0703 gene
2509	- 1	20738 NM_131907	ပ			product, putative secretory pathway Ca-ATPase SPCA2
2448		20939 NM_053884	99			ATPase, H+ transporting, lysosomal 14kD, V1 subunit F

TABLE 3					ではない	28 A 11-5090-01-WO/2405485
SEQ		GenBank Acc.				
<u>a</u>	GLGC ID No.	No.	Model Code Human I	Human Homologous Known Gene Name		Human Homologous Sequence Cluster Title
						ATPase, H+ transporting, lysosomal interacting protein 1, EST, Weakly similar to
						154197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT
						Vacuolar ATP synthase subunit S1 precursor (V-ATPase S1 subunit) (V-ATPase S1
						accessory protein) (V-ATPase Ac45 subunit) (C7-1 protein) [R.norvegicus], Homo
						sapiens cDNA FLJ12563 fis, clone NT2RM4000820, weakly similar to VACUOLAR
						ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC 3.6.1.34), expressed
1209		22661 AI169265	99			sequence AW108110
						ATPase, H+ transporting, lysosomal interacting protein 1, EST, Weakly similar to
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						154197 hypothetical protein [H.sapiens], ESTs, Weakly similar to VAS1_RAT
					_	Vacuolar ATP synthase subunit S1 precursor (V-ATPase S1 subunit) (V-ATPase S1
						accessory protein) (V-ATPase Ac45 subunit) (C7-1 protein) [R.norvegicus], Homo
						sapiens cDNA FLJ12563 fis, clone NT2RM4000820, weakly similar to VACUOLAR
						ATP SYNTHASE SUBUNIT AC45 PRECURSOR (EC 3.6.1.34), expressed
2327	16178	16178 NM_031785	-			sequence AW108110
						ATPase, H+ transporting, lysosomal V0 subunit A isoform 4, ATPase, H+
						transporting, lysosomal V0 subunit a isoform 1, ATPase, H+ transporting, lysosomal
						V0 subunit a isoform 2, ATPase, H+ transporting, lysosomal V0 subunit a isoform 4,
						EST, Weakly similar to B38656 vacuolar proton pump 116K chain - rat
						[R.norvegicus], ESTs, Moderately similar to B38656 vacuolar proton pump 116K
2296		20840 NM_031604	S, de			chain - rat [R.norvegicus]
1871	23/091	23709 NM_013113	f, g			ATPase, Na+/K+ transporting, beta 1 polypeptide
1871	237101	23710 NM_013113	ᄠ			ATPase, Na+/K+ transporting, beta 1 polypeptide
		_				ATP-binding cassette, sub-family C (CFTR/MRP), member 4, ATP-binding cassette,
_		-			•	sub-family C (CFTR/MRP), member 9, ESTs, Weakly similar to ATP-binding
	•					cassette, sub-family C, member 9, isoform c; sulfonylurea-binding protein 2;
						sulfonylurea receptor 2 [Mus musculus] [M.musculus], Homo sapiens cDNA
					-	FLJ31957 fis, clone NT2RP7007381, highly similar to Sulfonylurea receptor 2A,
						Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library,
						clone:5330439B14:ATP-binding cassette, sub-family C (CFTR/MRP), member 9, full
1360	3650/	3650/AIZ35/38				insert sequence
121/	24146/	24146 AI169668				ATP-binding cassette, sub-family F (GCN20), member 2

TABL	ш Э			A CONTRACT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	
SEO		GenBank Acc		10000000000000000000000000000000000000	Atty::Ref. 44921-5090-01-WO/2105485
⊖	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Seguence Cluster Title
					AU RNA binding protein/enoyl-Coenzyme A hydratase, AU RNA binding
					RNA-binding protein / enovi-CoA hydratase homolog IH senions 1 Mus musculus
					Similar to 3-hydroxyisobutyryl-Coenzyme A hydrolase, clone MGC:31364
248		00503040500	; ;		IMAGE:4238681, mRNA, complete cds, RIKEN cDNA 1300017C12 gene.
5		AA033000	w, nn		uncharacterized hypothalamus protein HCDASE
					B-cell translocation gene 1, anti-proliferative, ESTs, Highly similar to TOB1_HUMAN
798		A1009747	ď		TOB1 PROTEIN [H.sapiens], transducer of ERBB2, 1, transducer of ERBB2, 2,
2055	1	23679 NM 019290	5 6		transducer of ErbB-2.1
	1		5		b-cell translocation gene 3, BTG family, member 3
2500		23033 NM 080888	£		BCL2/adenovirus E1B 19 kDa-interacting protein 3-like, BCL2/adenovirus E1B 19kD
2153		17757 NM_022698	co. dd		Interacting protein 3-like
					DCL2-dilidyonist of cell death, Bcl-associated death promoter
781		21632 AI009167	a, y, z, ee, ff		BCL2-associated athanorene 2
1493		15171 AI231792	₫ 4		BCL2-associated athanogene 3, BCL2-associated athanogene 5, Bcl2-associated
558		22577 A A G A 274 G	= 12		athanogene 3, RIKEN cDNA 1700081D05 gene
36	1	VAS427 10	S, t, KK		BCL2-related ovarian killer, Bcl2-like
1486		20301 AM301 IZ3	, , , , , , , , , , , , , , , , , , ,		brain expressed, X-linked 1, hypothetical protein FLJ10097
3		00 100711	ß.		brain protein I3
412	4 1997 A	11997 AA892828			branched chain ketoacid dehydrogenase E1, beta polypeptide, pyruvate
			1,11,1		dehydrogenase (lipoamide) beta
1313	5876A	5876 AI176117	-4-		branched chain ketoacid dehydrogenase E1, beta polypeptide, pyruvate
					denydrogenase (lipoamide) beta
					similar to criantine mideatide biodice societies of nomolog (yeast), ESTs, Weakly
					Rangivericis Mark miscriffs close MSC:7034 MACC:5603646 Day
					cds, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), manine
2209	21801N	21801 NIM 030087	:: 70 0		nucleotide binding protein, beta 1, neural precursor cell expressed, developmentally
3	1001.3	1	בני חמי וו		down-regulated gene 1

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TABLE 3	က			Section 1987	Attv. Ref. 44921-5090-01-WO/2105485
CHS	Ī	GenBank Acc			
) Q	ai oʻs	o.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast), ESTs, Weakly
					similar to guanine nucleotide-binding protein, beta-1# subunit [Rattus norvegious]
			-		[R.norvegicus], Mus musculus, clone MGC:7934 IMAGE:3583848, mRNA, complete
					cds, budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae), guanine
					nucleotide binding protein, beta 1, neural precursor cell expressed, developmentally
2209	I	21805 NM_030987	cc, dd		down-regulated gene 1
869	2582 A	2582 AA965164	99		CAC-1, RIKEN cDNA 1810017F10 gene, RIKEN cDNA 2010001C09 gene
					calclum binding protein, 140 kDa, heat shock 70 kDa protein 4, heat shock 70kD
					protein 4, heat shock protein (hsp110 family), osmotic stress protein 94 kDa,
2594	15711NI	15711 NM_153629	р		oxygen regulated protein (150kD)
435	11935 AA893328	4893328	88		calmegin, calnexin
					Carboxypeptidase E, ESTs, Weakly similar to carboxypeptidase E [Rattus
					norvegicus] [R.norvegicus], carboxypeptidase E, carboxypeptidase X 1 (M14
67	17875 AA799755	4799755	cc, dd		family), expressed sequence AA589379, expressed sequence AA986902
					CARD only protein, ESTs, Moderately similar to A57511 interleukin-1 beta
					converting enzyme [H.sapiens], ESTs, Weakly similar to A56084 interleukin-1beta
					converting enzyme beta isozyme [H.sapiens], Homo sapiens mRNA; cDNA
					DKFZp586A181 (from clone DKFZp586A181); partial cds, ICEBERG caspase-1
					inhibitor, caspase 1, caspase 1, apoptosis-related cysteine protease (interleukin 1,
1791	18066 NN	18066 NM_012762	aa, bb		beta, convertase)
					CARD only protein, ESTs, Moderately similar to A57511 interleukin-1 beta
					converting enzyme [H.sapiens], ESTs, Weakly similar to A56084 interleukin-1beta
	•				converting enzyme beta isozyme [H.sapiens], Homo sapiens mRNA; cDNA
					DKFZp586A181 (from clone DKFZp586A181); partial cds, ICEBERG caspase-1
					inhibitor, caspase 1, caspase 1, apoptosis-related cysteine protease (interleukin 1,
1791	18068 N	18068 NM_012762	9		(beta, convertase)
1467	24270 AI230758	230758	n, o		cargo selection protein (mannose 6 phosphate receptor binding protein)
2002	1894 NA	1894 NM_017320	b, I, m, kk		cathepsin S
					Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1,
	<del></del> .		,		Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1,
Ç	1070		p, q, r, bb,		
1343	16124 Al1/6963		lee, ff, JJ, KK		Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4

TABLE	53	1 1 1	7 1000	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
SEO		GenBank Acc.			Atty. Ref. 44921-5090-01-WO/2105485
<u>.</u>	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				Cbp/p Cbp/p Cbp/b	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1, Chp/p300-interacting transactivator, with Glu/Asp-rich carboxy terminal domain, 2, Chp/p300-interacting transactivator, with Glu/Asp-rich carboxy terminal domain, 2, Chp/p300-interacting transactivator, with Glu/Asp-rich carboxy terminal domain, 2, Chp/p300-interacting transactivator.
2419		16122 NM_053698	p, q, ee, ff	Cbp/p	5300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
		***		Cbp/p	Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 1,
				Cop/p	Coppositive acuing transactivator, with Gtu/Asp-rich carboxy-terminal domain, 1, Cbp/p300-interacting transactivator, with Gtu/Asp-rich carboxy-terminal domain, 2.
2419		16123 NM_053698	ď, p, q, jj, Kk	Cbp/p	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
494		4790 AA900875	ee, ff	Cbp/p	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 1, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4
				CD 81	CD 81 antigen, CD81 antigen (target of antiproliferative antibody 1), ESTs, Weakly similar to CD81 ANTIGEN IM musculus) ESTs, Weakly
1867		8899 NM 013087	<del>Q</del>	antige	antigen (26 kDa cell surface protein TAPA-1) (Target of the antiproliferative
9000	\	111 00 111	a, j, k, q, hh,	OCCUPATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	-
0007	1	19/10 NM_021/44	ž	CD14	CD14 antigen
				CD151	CD151 antigen, EST AI426782, ESTs, Moderately similar to C151 MOUSE PLATELET-ENDOTHELIAL TETRASPAN ANTIGEN 3 IM miscripus) RIKEN CONA
2129		4412 NM_022523	E,	11100.	1110014F12 gene, RIKEN cDNA 2210021G21 gene, RIKEN cDNA 2610042G18
1932	1523	1523 NM_017079	h, l, n, o, w, x	CD18	CD18 antigen, b polypeptide, CD1D antigen, d polypeptide, CD1E antigen, e polypeptide, CD16 antigen, e
				CD2 ar	CD2 antigen family, member 10, CD48 antigen, CD48 antigen (B-cell membrane profesio) CD84 antigen ESTs. Weathy similar to CD48. DAT MPC OX 45 metros
2567	17854	17854 NM 139103	=		antigen precursor (BCM1 surface antigen) (BLAST-1) (CD48) [R.norvegicus],
				CD3 ar	CD3 antigen, zeta polypeptide, CD3Z antigen, zeta polypeptide (TI73 complex), Fc
				fragme	fragment of IgE, high affinity I, receptor for, gamma polypeptide, Fc receptor, IgE,
				ingin af	ingli allinity I, gamma polypeptide, Homo sapiens, Simitar to Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide, clone MGC:22620 IMAGE:4704425
999	1	24040 AA957422	n, o, w, x	mRNA	mRNA, complete cds, T-cell receptor CD3, subunit zeta

TABLE 3	3	in the second	- A	1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 1988 AND 198	-WO/2105485
SEO		GenBank Acc.			1001200
Q	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name Human Homologous Sequence Cluster Title	
				CD63 antigen (melanoma 1 antigen), Cd63 antigen, EST, Weakly similar to CD63   MOUSE CD63 ANTIGEN   M. musculus]. expressed sequence C75951. tetraspan 3.	lar to CD63 tetraspan 3.
393		24873 AA892498	<u>₹</u>	transmembrane 4 superfamily member 8	
			a, p, q, cc,	CD72 antigen, Mus musculus strain BALB/c dectin-2 gamma isoform mRNA,	nRNA,
2411		207490 MM 002393	dd, ee, ff, ]],	complete cds, alternatively spliced, NK receptor Ly-49Q, asialoglycoprotein receptor	otein receptor
3		1414 044333	NN	1, Indulophage galaciose in-acetyr-galaciosalmine specific lectin	riotoria O
	-		·	IRathis norveolous] R norveolous] Mis misculus clone MGC:38363	nelord ac
				IMAGE:534986, mRNA, complete cds, RIKEN cDNA 6330415F13 gene,	ne,
2523		20890 NM_133526	:=	transmembrane 4 superfamily member 3, uroplakin 1A	
				CDA02 protein, ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC	
304		15372 AA875205	y, z	TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]	
				CDA02 protein, ESTs, Weakly similar to IF39_HUMAN EUKARYOTIC	
1685		15374 H34186	j, <del>k</del>	TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]	
				CDw92 antinen_FSTs_Weakly similar to_CTI 2 nene [Homo saniens] [H saniens]	Heanienel
			- 1	FSTs Weakly similar to transporter, like protein (Rathre popular).	הטומיםיםים חמים
				Homo sanians clone MGC:34032 IMAGE:4828797 mRNA complete add Mus	ilensignation.
				O COUNTY OF COUNTY AND COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COUNTY OF COU	Secondary
				Intusculus, Onfiliar to transporter-like protein, cione Mich. 7344 IMACE: 3082043,	3282243,
				mRNA, complete cds, RIKEN cDNA 1110028E10 gene, RIKEN cDNA 2210409B01	2210409B01
2387	ŀ	14904 NM_053492	s, t	gene, chromosome 6 open reading frame 29, expressed sequence AW547365	747365
				cell division cycle 25 homolog B (S. cerevisiae), cell division cycle 25 homolog C (S.	omolog C (S.
2530		1827 NM_133572	r, u, v	cerevisiae), cell division cycle 25B, cell division cycle 25C	
				cell division cycle 25 homolog B (S. cerevisiae), cell division cycle 25 homolog C (S.	omolog C (S.
2530		1830 NM_133572	^	cerevisiae), cell division cycle 25B, cell division cycle 25C	
				cell division cycle 25 homolog B (S. cerevisiae), cell division cycle 25 homolog C (S.	omolog C (S.
2530		1831 NM_133572	>	cerevisiae), cell division cycle 25B, cell division cycle 25C	
416	į	22871 AA892859	99	cerebral cell adhesion molecule	
33	.	23294 AA799472	q	CGI-116 protein	
				CGI-120 protein, COPZ2 for nonclathrin coat protein zeta-COP, coatomer protein	ner protein
443		19505 AA893634	:= '-'	. complex, subunit zeta 1	
1588	33	3368 AI237331	S	CGI-143 protein	
1029		18 AI070195	w, x	CGI-20 protein	

TABLE 3				Afty Paf A4091-5000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.8000_04.80000000000	MOVOTORABE
_	9	GenBank Acc.			202102403
⊋	GLGC ID No.	No.	Model Code Human H	omologous Known Gene Name	
1520	3100,	3100 AI232741	hh	CGI-51 protein, EST, Weakly similar to CG51_HUMAN PROTEIN CGI-51 [H.saplens]	51
647	14327	14327 AA956111	- £	CGI-69 protein, EST, Moderately similar to T43493 hypothetical protein DKFZ0434C119.1 IH. saciens. Initochondrial carrier family protein	
				CGF/4-like SR-rich, DNA segment, Chr 17, human D6S45, EST, Weakly similar to SRA4 HUMAN CTD-BINDING SR-LIKE PROTEIN RA4 IH sapiens] ESTs. Highly	y similar to
				similar to T31420 C-terminal domain-binding protein rA8 - rat [R.norvegicus], ESTs,	cus], ESTs,
				PROTEIN [M.musculus], ESTs, Weakly similar to T31420 C-terminal domain-	main-
				binding protein rA8 - rat [R.norvegicus], KIAA1116 protein, expressed sequence	edneuce
2565	734 1	734 NM_139094	66	A1447 044, expressed sequence A1448052, nypometical protein FLJ10290, pre- mRNA splicing SR protein rA4	JU, pre-
				CGI-86 protein, DKFZP5660084 protein, ESTs, Weakly similar to T17307	7(
7007	70		h, l, n, o, jj,	hypothetical protein DKFZp5660084.1 [H.sapiens], hypothetical protein MGC4172,	MGC4172,
1623	1/213/	1/215/AI639268	ž	retinal short chain dehydrogenase reductase	
294	16319,	6319 AA875047	Ф	chaperonin containing TCP1, subunit 6A (zeta 1), chaperonin subunit 6a (zeta)	(zeta)
607	22615/	22615 AA945643	춫	chitinase 3-like 1, chitinase 3-like 1 (cartilage glycoprotein-39)	7
2216	1024	1024 NM_031016	s, u, v	cholinergic receptor, muscarinic 2	
2216	10251	1025 NM_031016	u, v	cholinergic receptor, muscarinic 2	
84	18881	18841 44799999	c, h, l, n, o,		
2	18883	18883 44799992	42 0	Chichingsoning It ame 17, predicted gene ICKFP/U3B1614U5.6	405.6
878	23444	23444 Al013448	0, 0, NA	Chromosome 11 open reading frame 17, predicted gene (CRFP703B1614Q5.6	405.6
				chromosome 20 open reading frame 36, protein-L-isoaspartate (D-aspartate) O-	tate) O-
1861	171811	17181 NM_013073	66	methyltransferase, protein-L-isoaspartate (D-aspartate) O-methyltransferase 1	ase 1
	-		:	chromosome 20 open reading frame 36, protein-L-isoaspartate (D-aspartate) O-	tate) O.
1861	218301	21830 NM_013073	aa, bb	methyltransferase, protein-L-isoaspartate (D-aspartate) O-methyltransferase 1	ase 1
	21000/	21000 AA799816	_ <u>`</u>	chromosome 7 open reading frame 2, lipocalin-interacting membrane receptor	Septor
7,007	9513	951 S69206		chymase 1, mast cell, mast cell protease 1	
2438	17154	17154 NM_053835	p, d	clathrin, light polypeptide (Lca), clathrin, light polypeptide (Lcb), expressed	g
				clathrin, light polypeptide (Lca), clathrin, light polypeptide (Lcb), expressed	9
2438	17155	17155 NM_053835	6	sequence AV026556	

TABLE 3	3	٠	は、	1000年代	Atty. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.	:		
_	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2438		18065 NM 053835	ပ		clathrin, light polypeptide (Lca), clathrin, light polypeptide (Lcb), expressed
		-			CLLL8 protein, EST, Highly similar to S30385 G9a protein [H.sapiens], ESTs,
					Weakly similar to T17453 ERG-associated protein ESET - mouse [M.musculus],
					SET domain, bifurcated 1, euchromatic histone methyltransferase 1, suppressor of
1604		17108 AI639017	1		variegation 3-9 (Drosophila) homolog 2; hypothetical protein FLJ23414
					CLST 11240 protein, DKFZP564K247 protein, ESTs, Highly similar to T14766
					hypothetical protein DKFZp564K247.1 [H.sapiens], ESTs, Weakly similar to
					hypoxia induced gene 1 [Rattus norvegicus] [R.norvegicus], Homo sapiens mRNA;
					CDNA DKFZp434A1627 (from clone DKFZp434A1627), RIKEN cDNA 2010110M21
					gene, RIKEN cDNA 2310056K19 gene, hypothetical protein MGC2198, hypoxia
2501		9952 NM_080902	cc, dd		induced gene 1
1856		24874 NM_013057	<b>8</b>		coagulation factor III, coagulation factor III (thromboplastin, tissue factor)
					Cocoacrisp, EST, Highly similar to epididymal glycoprotein [Rattus norvegicus]
					[R.norvegicus], acidic epididymal glycoprotein 1, acidic epididymal glycoprotein 2,
2546		19894 NM_138518	ť.		epididymal glycoprotein, glioma pathogenesis-related protein
					Complement component 4 binding protein, alpha, Mus musculus decay accelerating
					factor glycosylphoshatidylinositol-anchored form (DAF) mRNA, partial cds,
					complement component 4 binding protein, complement component 4 binding
					protein, alpha, decay accelerating factor 1, expressed sequence Al195242,
991		8012 AI058330	ee, ff, kk		expressed sequence Al323748, zona pellucida 3 receptor
196		24128 AA849766	þþ		component of oligomeric golgi complex 4
1358	.7	24129 AI177590	þ		component of oligomeric golgi complex 4
2101		6585 NM_022266	a, k		connective tissue growth factor
1428		22915 AI228299	ф		craniofacial development protein 1
					Creatine transporter [human, brainstem/spinal cord, mRNA, 2283 nt], ESTs, Highly
	-				similar to G02277 creatine transporter [H.sapiens], Mus musculus, Similar to solute
					carrier family 6 (neurotransmitter transporter, GABA), member 13, clone
					MGC:28956 IMAGE:4240641, mRNA, complete cds, X transporter protein 3,
					expressed sequence AA589632, solute carrier family 6 (neurotransmitter
2009		468 NM_017348	w, x		transporter, creatine), member 8

TARI F3	~				entransity of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
SEO		GenBank Acc.			Any. Ker. 44921-5090-01-WO/2105485
Ω	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					CTAGE-1 protein, ESTs, Moderately similar to MEA6_HUMAN MENINGIOMA-
					AFTESSED ANTIGEN 0/11 (MEA) (MEA) [H.sapiens], ESTS, Weakly similar to
					INLEAD_: TOWARI MENINGTOWA-EAFTESSED AN ITGEN 6/ IT (MEAD) (MEATT) [H.sapiens]. KIAA0268 protein. meningtoma expressed antinen 6 (colled-only notine).
1254		22958 AI171374	p, q, t		rich)
					C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily
1451		7650 AI230142	×,×		R. norvegicus]. Kupffer cell receptor. Langerhans cell specific c-tyne lectin
			e, aa, bb,		
1792		17257 NM_012766	ee, ff		cyclin D3
1792		17261 NM_012766	l, m		cyclin D3
7.26		7900000	1		cyclin-dependent kinase inhibitor 1C (P57), cyclin-dependent kinase inhibitor 1C
8		AASSOOO	C, I, III		(p57, Kip2)
2260		110E0 NIM 001007	y, z, ee, ff,		
0077		INIV. US 1327	66		cysteine rich protein 61, cysteine-rich, angiogenic inducer, 61
2183		20170INM_024160	n, o		cytochrome b-245, alpha polypeptide
1795	449	449 NM_012786	hh		cytochrome c oxidase, subunit VIIIb. heme-regulated initiation factor 2-aloha kinase
	-				ספונות שווקים במספר והמספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המספר המס
1795	450	450 NM_012786	f, hh		cytochrome c oxidase, subunit VIIIb, heme-regulated initiation factor 2-alpha kinase
547	5227,	5227 AA925924	, o, K <del>K</del>		cytokine receptor-like factor 1
1528	5228	5228 AI233311	h, l, n, o		cytokine receptor-like factor 1
					DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 20, DEAD/H (Asp-Glu-Ala-Asp/His)
	•				box polypeptide 20, 103kD, DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 39,
					DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD), DEAD/H
					(Asp-Glu-Ala-Asp/His) box polypeptide 7 (RNA helicase, 52kD), EST, Moderately
					similar to HLA-B-associated transcript 1A; DNA segment, Chr 17, human D6S81E
0	- 1		a, n, o, y, z,		1; nuclear RNA helicase Bat1 [Mus musculus] [M.musculus], HLA-B-associated
C667	432/	432/ INM_U53563	JJ, KK		transcript 1A
					death-associated kinase 3, death-associated protein kinase 1, death-associated
2130		12422 NIM 022548	· ·		protein kinase 3, expressed sequence A1120141, serine/threonine kinase 17a
3		0.0220	2 111		(apopuosis-inducing), serinerineonine Kinase 17b (apopiosis-inducing)

GLGC ID No.   Model Code Human Homologous Known Gene Name   16155 NM_021810   ii	TABLE 3	3			学院の機能の場合には、一般のでは、これは、一般のでは、これは、一般のでは、これは、一般のでは、これは、一般のでは、これは、一般のでは、これは、一般のでは、これは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般のでは、一般の	2011-01-01-01-01-01-01-01-01-01-01-01-01-
531 NM_05383 ii. ji, kk  10780 A105655 c  1788 AA899969 I. m	SEQ ID	GLGC ID	GenBank Acc. No.	Model Code	Homologous Known Gene Name	ologous Sequence Cluster Title
6100   NM_022531   n, o 4739   NM_130400   aa, bb 7880   Al043714   ii 7880   Al043714   ii 531   NM_053951   gg 24875   NM_053583   ii, jj, kk 10780   Al136555   c 11268   AA899969   i, m	2332	<b>•</b>	NM_031810	:=	puejep	defensin beta 1 defensin heta 2 defensin beta 1 evoressed seminance AW/26/1221
4739 NM_130400 aa, bb  4504 NM_024159 d  7880 AI043714 ii  531 NM_053951 gg  24875 NM_053583 ii, ji, kk  11268 AA899969 I, m	2132		NM_022531	n, o	desmi	in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th
531 NM_053951 gg  24875 NM_053959 ii, ji, kk  10780 A113655 c  11268 AA899969 I, m	2502		NM_130400	aa, bb	dihydr	rofolate reductase
7880/AI043714 ii ii ii ii ii ii ii ii ii kk 24875 NIM_053651 gg ii ii ii kk 11268 AA899969 I, m	2182		NM 024159	ס	disabi	disabled homolog 1 (Drosophila), disabled homolog 2 (Drosophila), disabled homolog 2 (mitonen-resnonsive phosophorotein (Drosophila)
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m	939		A1043714	:=	DKFZI	P434B0335 protein
531 NM_053951 9g 24875 NM_053583 ii, ji, kk 10780 A1136555 c 11268 AA899969 i, m					DKFZI	DKFZP4341216 protein, ESTs, Highly similar to DBS MOUSE GUANINE
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m					NOCH	NUCLEOTIDE EXCHANGE FACTOR DBS [M.musculus], ESTs, Weakly similar to
531 NIM_053951 gg 24875 NIM_053583 ii, jj, kk 10780 A1136555 c 11268 AA839969 l, m					DBSV	DBS MOUSE GUANINE NUCLEOTIDE EXCHANGE FACTOR DBS [M.musculus],
531 NM_053951 gg 24875 NM_053583 ii, ji, kk 10780 Al136555 c 11268 AA899969 l, m					ESTS,	ESTs, Weakly similar to TIAM MOUSE T-LYMPHOMA INVASION AND
531 NM_053951 gg 24875 NM_053583 ii, ji, kk 10780 A1136555 c 11268 AA899969 i, m					META	METASTASIS INDUCING PROTEIN 1 [M.musculus], Homo sapiens cDNA:
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m					FLJ21	FLJ21933 fis, clone HEP04337, KIAA0861 protein, KIAA1209 protein, MCF.2 cell
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m					line de	ine derived transforming sequence, MCF.2 cell line derived transforming sequence-
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 AI136555 c 11268 AA899969 l, m				-	like, R	like, RIKEN cDNA 2410008H17 gene, T-cell lymphoma invasion and metastasis 2,
531 NM_053951 gg 24875 NM_053583 ii, jj, kk 10780 Al136555 c 11268 AA899969 l, m					expres	expressed sequence AA408740, hypothetical protein MGC2780, likely ortholog of
24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m	2453		NM_053951	99	esnom	mouse common-site lymphoma/leukemia GEF, mcf.2 transforming sequence
24875 NM_053583 ii, jj. kk 10780 A1136555 c 11268 AA899969 l, m					DKFZI	DKFZP564D0764 protein, ESTs, Weakly similar to zinc finger protein 319 [Mus
24875 NM_053583 ii, jj, kk 10780 A1136555 c 11268 AA899969 l, m					moson	musculus] [M.musculus], KIAA1805 protein, Mus musculus, clone MGC:29358
248 (5) NM_U53583  1, JJ, KK 10780 A1136555 c 11268 AA899969  1, m		1		:	IMAGE	IMAGE:5038671, mRNA, complete cds, OLF-1/EBF associated zinc finger gene,
10780 A136555 c l, m	2401	24875	NM_053583	;; ;; , ₹	RIKEN	RIKEN cDNA 4931408L03 gene, early B-cell factor associated zinc finger protein
10780 A1136555 c 11268 AA899969 l, m					DKFZ	DKFZP564O0823 protein, ESTs, Weakly similar to S59856 collagen alpha 1(III)
10780/A1136555 c 11268/AA899969 l, m					chain r	chain precursor - mouse [M.musculus], hypothetical protein DKFZp547D065,
11268 AA899969 I, m					hypoth	hypothetical protein FLJ13725, mucin and cadherin-like, splicing factor 3a, subunit
11268 AA899969  , m	1166		AI136555	၁	2, 66kl	
8247 41050519	482		AA899969	E, ,	DKFZF	P566C0424 protein
8347 4 1050510 h 0	-				DKFZF	DKFZP566D213 protein, EST, Moderately similar to EPIDERMAL GROWTH
8347 41059519					FACTC	FACTOR PRECURSOR [M.musculus], Homo sapiens mRNA; cDNA
8347] 4 1059519 in o					DKFZF	DKFZp43400213 (from clone DKFZp43400213); partial cds, hypothetical protein
0.11 2000013	1015		AI059519	n, o	MGC1	MGC11256, nidogen 2

	•				See A A A A A A A A A A A A A A A A A A
SEO	SEO	GenBank Acc.			
<u>_</u> .	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					DKFZP586G011 protein, ESTs, Weakly similar to T08767 probable lamina-
2580		1948 NM_145092	b, l, m		associated protein DAFZposocio11.1 [H.sapiensj, Mus musculus, clone MGC:6357] IMAGE:3493883, mRNA, complete cds
					DNA (cytosine-5-)-methyltransferase 1, DNA methyltransferase (cytosine-5) 1, EST,
					Weakly similar to JE0378 DNA (cytosine-5-)-methyltransferase (EC 2.1.1.37) - rat
					[R.norvegicus], F-box and leucine-rich repeat protein 11, Mus musculus DNA
•					cytosine methyltransferase mRNA, methyl-CpG binding domain protein 1, protein
742		21666 AB012214	o,'u		containing CXXC domain 2
					DNA polymerase epsilon, subunit 3, ESTs, Moderately similar to CCAAT-BINDING
		_			TRANSCRIPTION FACTOR SUBUNIT A [M.musculus], ESTs, Weakly similar to
					A23692 transcription factor, CCAAT-binding, chain A1 - rat [R.norvegicus], RIKEN
					cDNA 1810034K18 gene, down-regulator of transcription 1, down-regulator of
					transcription 1, TBP-binding (negative cofactor 2), nuclear transcription factor Y,
					beta, nuclear transcription factor-Y beta, polymerase (DNA directed), epsilon 3 (p17
2283		1822 NM_031553			subunit)
1650		2401 AJ011607	п		DNA primase, p58 subunit, primase, polypeptide 2A (58kD)
		-			DNA segment, Chr 1, Brigham & Women's Genetics 0212 expressed, EST, Weakly
					similar to suppression of tumorigenicity 13 (colon carcinoma) Hsp70-interacting
					protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to suppression of
					tumorigenicity 13 (colon carcinoma) Hsp70-interacting protein [Rattus norvegicus]
			-		[R.norvegicus], RIKEN cDNA 1700010124 gene, RIKEN cDNA 2310040B03 gene,
					expressed sequence AW538196, sperm associated antigen 1, suppression of
2248	- [	23568 NM_031122	a		tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein)
					DNA segment, Chr 1. Brigham & Women's Genetics 0212 expressed FST Weakly
					similar to suppression of tumoridenicity 13 (colon carcinoma) Hsp70-interacting
					protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to suppression of
					tumorigenicity 13 (colon carcinoma) Hsp70-interacting protein [Rattus norvegicus]
					[R.norvegicus], RIKEN cDNA 1700010124 gene, RIKEN cDNA 2310040B03 gene,
9700		02EE0 NW 024400			expressed sequence AW538196, sperm associated antigen 1, suppression of
0477	1	14IVI_031122			tumorigenicity 13 (colon carcinoma) (Hsp/0 interacting protein)

Лате	TABLE	<b>در</b>				Attv. Ref. 44921:5090-01-WO/2105485
26 1824 NM_133545 j. k, r 26 13359 NM_031135 d. d. 270 14463 NM_031130 ii	SEO E	ا ان ان	GenBank Acc.	apo Japon	1 .	Himan Homologie Courang Olighia Tilla
13358 NM_031135 d 13359 NM_031135 s, t 14463 NM_139110 ii  23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd, ii	2	2000	.0.	INIONEI COME	- 1	numan nomologous sequence cruster line
13358 NM_031135 d 13358 NM_031135 b, t 14463 NM_139110 ii ii ii 23511 NM_022294 n, o 20612 NM_031100 g, h, i 1283 U61729 cc. dd, ii						DNA segment, Chr 10, ERATO Doi 398, expressed, EST, Weakly similar to
13358 NM_031135 d 13358 NM_031135 d 13359 NM_031135 s, t 14463 NM_139110 ii  23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd, ii				-		Z1uzz/9A protein 1yt phosphatase (Kattus norvegicus) (K.norvegicus), ES1s, Micakly similarta 44 MO10E DEOTEIN 4.4 M. micakly i matais 4 mailarta
13358 NM_031135 d 13358 NM_031135 d 13359 NM_031135 s, t 14463 NM_139110 ii  23511 NM_022294 n, o 22512 NM_031100 g, h, i 1283 U61729 cc. dd, ii						Wedny stiffing to 41 MOOSE TACIETY 4.1 [M.Moseulus], protein tyrosine
13359 NM_031135 d 13359 NM_031135 s, t 14463 NM_139110 ii  23511 NM_022294 n, o 20812 NM_031100 g, h, i	2526		NM_133545	<u>ب</u> پد		phosphatase, non-receptor type 14, protein tyrosine phosphatase, non-receptor type 21
13358 NM_031135 d 13359 NM_031135 s, t 14463 NM_139110 ii  23511 NM_022294 n, o 20812 NM_031100 g, h, i						DNA segment, Chr 12, ERATO Doi 427, expressed, RIKEN cDNA 7420700M05
13356 INM_031135 64  13359 INM_031135 s, t  14463 INM_139110 ii  23511 INM_022294 n, o  20812 INM_031100 g, h, i  1283 U61729 cc. dd, ii						gene, TGFB inducible early growth response, TGFB inducible early growth
13359 NIM_031135 s, t  14463 NIM_139110 ii  23511 NIM_022294 n, o  20812 NIM_031100 g, h, i  1283 U61729 cc. dd, ii	2255	Ī	NM_031135	q		response 2
13359 NM_031135 s, t  14463 NM_139110 li  23511 NM_022294 n, o  20812 NM_031100 g, h, i  1283 U61729 cc. dd.						DNA segment, Chr 12, ERATO Doi 427, expressed, RIKEN cDNA 7420700M05
13359 NM_031135 s, t  14463 NM_139110 ii  23511 NM_022294 n, o  20812 NM_031100 g, h, i  1283 U61729 cc. dd,						gene, TGFB inducible early growth response, TGFB inducible early growth
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd, II	2255		NM_031135	s, t		response 2
14463 NM_139110 ii 23511 NM_022294 n, o 20812 NM_031100 g, h, i					,	DNA segment, Chr 17, ERATO Doi 479, expressed, EGF-like module containing,
14463 NM_139110 ii 23511 NM_022294 n, o 20812 NM_031100 g, h, i						mucin-like, hormone receptor-like sequence 1, EST, Highly similar to T08685
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						hypothetical protein DKFZp564O1923.1 [H.sapiens]. EST. Weakly similar to EMR1
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						MOUSE CELL SURFACE GLYCOPROTEIN EMRI PRECURSOR [M.musculus],
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						ESTs, Weakly similar to EMR1 MOUSE CELL SURFACE GLYCOPROTEIN EMR1
14463 NM_139110  i   23511 NM_022294 n, o  20812 NM_031100 g, h, i  1283 U61729 cc. dd.						PRECURSOR [M.musculus], KIAA0758 protein, cadherin EGF LAG seven-pas G-
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II	2570	ĺ	NM_139110	:=		type receptor 2, hypothetical protein FLJ22684, latrophilin
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						DNA segment, Chr 17, ERATO Doi 479, expressed, EGF-like module containing,
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						mucin-like, hormone receptor-like sequence 1, EST, Weakly similar to EMR1
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						MOUSE CELL SURFACE GLYCOPROTEIN EMR1 PRECURSOR [M.musculus],
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						ESTs, Weakly similar to EMR1 MOUSE CELL SURFACE GLYCOPROTEIN EMR1
23511 NM_022294 n, o 20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						PRECURSOR [M.musculus], egf-like module containing, mucin-like, hormone
20812 NM_031100 g, h, i 1283 U61729 cc. dd. II	2103	ı	NM_022294	n, o		receptor-like sequence 1
20812 NM_031100 g, h, i 1283 U61729 cc. dd. II						DNA segment, Chr 3, University of California at Los Angeles 2, EST, Weakly similar
20812\NM_031100 g, h, i 1283\U61729 cc. dd. ll						to RL10 MOUSE 60S RIBOSOMAL PROTEIN L10 [M.musculus], EST, Weakly
20812NM_031100 g, h, i 1283U61729 cc. dd. II						similar to RL10_MOUSE 60S ribosomal protein L10 (QM protein homolog)
20812NM_031100 g, h, i 1283U61729 cc. dd. II						[R.norvegicus], ribosomal protein 10, ribosomal protein L10, ribosomal protein L10-
1283 U61729 cc. dd. II	2236	-	NM_031100	g, h, i		like
1283 U61729 cc. dd. II						DNA segment, Chr 4, Brigham & Women's Genetics 0593 expressed, ESTs,
12831U61729   cc. dd, ll				:		Moderately similar to JC4899 proline rich protein - rat [R.norvegicus], RIKEN cDNA
	2625	١	U61729	cc, dd, ll		10610011E17 gene, hypothetical protein FLJ20312, proline rich 2

TABLE 3	3		`.'		AHV Ref 44991-50901-01-01-01-01-01-01-01-01-01-01-01-01-0
SEO		GenBank Acc.			
₽	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					DNA segment, Chr 4, ERATO Doi 429, expressed, EST, Weakly similar to
					2113200G ribosomal protein S10 [H.sapiens], EST, Weakly similar to ribosomal
					protein S10 [H.sapiens], ESTs, Highly similar to 2113200G ribosomal protein S10
					[H.sapiens], ESTs, Highly similar to RS10 RAT 40S RIBOSOMAL PROTEIN S10
					[R.norvegicus], ESTs, Moderately similar to RIKEN cDNA 2210402A09 [Mus
2242	`	16847 NM_031109	h, I, x		musculus] [M.musculus], RIKEN cDNA 2210402A09 gene, ribosomal protein S10
					DNA segment, Chr 9, ERATO Doi 394, expressed, Mus musculus, Similar to
					electron-transfer-flavoprotein, alpha polypeptide (glutaric aciduria II), clone
					MGC:6481 IMAGE:2646522, mRNA, complete cds, electron-transfer-flavoprotein,
461	16434	16434 AA894174	-, ́-		alpha polypeptide (glutaric aciduria II)
					DNA segment, Chr X, Celltech Chiroscience 3, Mus musculus, serine threonine
					kinase pim3, clone MGC:27707 IMAGE:4924687, mRNA, complete cds, pim-1
2145		21115 NM_022602	,; *		oncogene, pim-2 oncogene, proviral integration site 1
	-				DNA segment, EST 1068184, ESTs, Highly similar to S68418 protein phosphatase
	1,000				1M chain M110 isoform - rat [R.norvegicus], ESTs, Weakly similar to S68418
					protein phosphatase 1M chain M110 isoform - rat (fragment) [R.norvegicus], ESTs,
					Weakly similar to T42713 ankyrin 3, splice form 1 - mouse [M.musculus], RIKEN
				•	cDNA 1810037003 gene, ankyrin repeat and SOCS box-containing 1, ankyrin
					repeat and SOCS box-containing 2, ankyrin repeat and SOCS box-containing 3,
					leukocyte receptor cluster (LRC) member 3, protein phosphatase 1, regulatory
87	17137 /	17137 AA799438	ee, ff, jj, kk		(inhibitor) subunit 12A
					DNA segment, KIST 6, ESTs, Moderately similar to T47177 hypothetical protein
					DKFZp762H157.1 [H.sapiens], ESTs, Weakly similar to MOES MOUSE MOESIN
					[M.musculus], RIKEN cDNA 4933415103 gene, expressed sequence AA408511,
2207	1	1048 NM 030863	s, t, hh		moesin, radixin, villin 2 (ezrin)

TABLE 3	33	in the second	1 4	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Attv. Ref. 44921-5090-01-01/05/05/05
SEO		GenBank Acc.			
<u>∩</u>	GLGC ID No.	No.	Model Codé	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2262		23097 NM_031145	n, o, cc, dd		DNA-dependent protein kinase catalytic subunit-interacting protein 3, EST, Moderately similar to A Chain A, Homology-Based Model Of Apo Cib [H.sapiens], ESTs, Weakly similar to CIB_HUMAN SNK INTERACTING PROTEIN 2-28 [H.sapiens], ESTs, Weakly similar to KIP1_RAT DNA-PKcs interacting protein (Kinase interacting protein) (KIP) (Calcium and integrin-binding protein) (CIB) [R.norvegicus], Mus musculus, Similar to protein kinase, DNA activated, catalytic polypeptide interacting protein, clone MGC:7098 IMAGE:3157513, mRNA, complete cds, RIKEN cDNA 1700041E20 gene, calcium and integrin binding 1 (calmyrin)
246		16318 AA859648	b 'd		DnaJ (Hsp40) homolog, subfamily A, member 1, DnaJ (Hsp40) homolog, subfamily A, member 4, DnaJ (Hsp40) homolog, subfamily B, member 1, DnaJ (Hsp40) homolog, subfamily B, member 12, ESTs, Weakly similar to DJA1_MOUSE DnaJ homolog subfamily A member 12, ESTs, Weakly similar to DJA1_MOUSE DnaJ homolog 2) (HSJ-2) [R.norvegicus], ESTs, Weakly similar to HSJ2_HUMAN DNAJ PROTEIN HOMOLOG 2 [H.sapiens], Homo sapiens cDNA FLJ13992 fis, clone Y79AA1002139, weakly similar to DNAJ PROTEIN HOMOLOG 1, RIKEN cDNA 1700014P03 gene, RIKEN cDNA 2010306G19 gene, RIKEN cDNA 5730551F12 gene, similar to MRJ gene for a member of the DNAJ protein family (H. sapiens) DnaJ (Hsp4U) nomolog, subfamily A, member 1, DnaJ (Hsp4U) nomolog, subfamily A
103		6892 AA800551	e, ee, ff, ii		A, member 4, ESTs, Highly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], ESTs, Moderately similar to DJA1_MOUSE DnaJ homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein homolog 2) (HSJ-2) [R.norvegicus], ESTs, Weakly similar to DnaJ-like protein [Raftus norvegicus] [R.norvegicus], ESTs, Weakly similar to HS44 MOUSE HEAT SHOCK 40 KDA PROTEIN 4 [M.musculus], Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 730912, Mus musculus SEC63 (Sec63) mRNA, complete cds, similar to DNAJ

TABLE 3	3				
SEO		GenBank Acc		S. T. STANSON	** Ally, Ref. 449Z1-509U-01-WO/2105485
	GLGC ID No.	No.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					UnaJ (HSp4U) nomolog, subtamily A, member 1, UnaJ (HSp4U) nomolog, subtamily A, member 4, ESTs, Highly similar to HS44 MOUSE HEAT SHOCK 40 KDA
					PROTEIN 4 [M.musculus], ESTs, Moderately similar to DJA1_MOUSE DnaJ
		•			homolog subfamily A member 1 (Heat shock 40 kDa protein 4) (DnaJ protein Ihomolog 2) (HSL-2) (B protein ISSTE Modely circling to Dna I in protein
					Retus norvegious] [R. norvegious], ESTS, Weakly similar to HS44 MOLISE HEAT
					SHOCK 40 KDA PROTEIN 4 [M.musculus], Homo sapiens mRNA full length insert
3	000				cDNA clone EUROIMAGE 730912, Mus musculus SEC63 (Sec63) mRNA, complete
2161	6891	6891 NM_022934	ee' ff		cds, similar to DNAJ
					Das. I (Hsp.40) homolog subfamily & member 1. Deal (Hsp.40) homolog subfamily.
					B. member 6. DnaJ-like protein. ESTs. Highly similar to HS44 MOLISE HEAT
					SHOCK 40 KDA PROTFIN 4 IM miscrifus I Homo capians mPNA full langth incort
1252		18047 AI171359	bb		cDNA clone EUROIMAGE 730912. RIKEN cDNA 4930483N21 nepe
				٠	DnaJ (Hsp40) homolog, subfamily B, member 1, DnaJ (Hsp40) homolog, subfamily
					B, member 5, Homo sapiens cDNA FLJ25366 fis, clone TST01784, RIKEN cDNA
Ş			,		1700014P03 gene, RIKEN cDNA 2010306G19 gene, RIKEN cDNA 5730551F12
28	38087	3808 A1008643	p, q, ee, ff		gene, hypothetical protein FLJ14281
					DnaJ (Hsp40) homolog, subfamily C, member 8, Homo sapiens cDNA FLJ13613 fis,
		100010			clone PLACE1010856, Homo sapiens mRNA; cDNA DKFZp434C2016 (from clone
8	10880	5990 AA95690/	u, v		DKFZp434C2016), hypothetical protein DKFZp434B227
0807	18946	18946 NM_021584	S, t		doublecortex; lissencephaly, X-linked (doublecortin), doublecortin
					E2F transcription factor 4, p107/p130-binding, E2F transcription factor 5, E2F
					transcription factor 5, p130-binding, ESTs, Moderately similar to E2F5 MOUSE
					TRANSCRIPTION FACTOR E2F5 [M.musculus], ESTs, Moderately similar to
					E2F5_RAT TRANSCRIPTION FACTOR E2F5 (E2F-5) [R.norvegicus], Mus
Š	- 6	0000			musculus, Similar to E2F transcription factor 4, p107/p130-binding, clone
707	3881	399 031668	b, d		MGC:37558 IMAGE:4987691, mRNA, complete cds
		•			EBNA1 binding protein 2, ESTs, Moderately similar to EBNA1 binding protein 2;
77.70	0,4076	0707070			nucleolar protein p40; homolog of yeast EBNA1-binding protein; nuclear FGF3
5	10/047	242/0/AII048/8	¥		binding protein; EBNA1-binding protein 2 [Homo sapiens] [H.sapiens]
2154	175861	17586 NIM 000604	3		EBNA-2 co-activator (100kD), ESTs, Moderately similar to 138968 100 kDa
1,217	10007	VIVI 022034	w, A		coactivator [H.sapiens], staphylococcal nuclease domain containing 1

Human Homologous Sequence Cluster  EGF-containing floulin-like extracellular JC5621 epidermal growth factor-like pro Mus musculus, Similar to EGF-containing floulin-like extracellular matrix protein 1 like extracellular matrix protein 2  EGF-like-domain, multiple 6, ESTs, Meal floulin-like extracellular matrix protein 2  EGF-like-domain, multiple 6, ESTs, Meal M. musculus), ESTs, Weakly similar to 7  DKFZp564P2063.1 [H.sapiens], norvegicus] [R. norvegicus], ESTs, Weakly similar to 7  DKFZp564P2063.1 [H.sapiens], ESTs, Weakly similar to 7  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 7  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  DKFZp664P2063.1 [H.sapiens], ESTs, Weakly similar to 1  ELAV (embryonic lethal, abnormal vision, Becton-transferring-flavoprotein, beta polygnetory-lessed sequence Alf28774, likely ort protein 1, vasodilator stimulated phosphoprotein expressed sequence Alf28774, likely ort protein 1, vasodilator stimulated phosphoprotein endotrol factor 1	-	<			I	
GLGC   DNG.     Cache   Model Code   Human Homologous Known Gene Name   Human Homologous Sequerice Cluster	IABLE	2		A STATE		Aftv-Ref 44921-5090-01-WO/2105485
17868 IM_139104 r, s, t 17383 AI235032 hh 17320 AI176422 ll 17930 AI3849 ee, ff 6335 AA891746 l, m	ე ე	GLGC ID	Genbank Acc. No.	Model Code		uster Title
17868 NIM_139104 r, s, t 13283 AI235032 hh 17380 AI176422 li 17920 AI176422 li 7913 AI043849 ee, ff 6535 AA897746 l, m	1667		D89730	qq	EGF-containing fibulin-like extracell JC5621 epidermal growth factor-like Mus musculus, Similar to EGF-cont clone IMAGE:5357328, mRNA, partifibulin-like extracellular matrix protelike extracellular matrix protelike extracellular matrix protelike extracellular matrix protelike extracellular matrix protelike extracellular matrix protelike extracellular matrix protein 2	lular matrix protein 1, ESTs, Weakly similar to e protein, T16 precursor - rat [R.norvegicus], taining fibulin-like extracellular matrix protein 1, tial cds, epidermal growth factor-containing in 1, epidermal growth factor-containing fibulin-
13293 AI235032 hh 17358 AI17947 g 17920 AI176422    7913 AI043849 ee, ff 6535 AA957653 ee, ff	2568		4M_139104	r, s, t	EGF-like-domain, multiple 6, ESTs, protein DKFZp564P2063.1 [H.sapie norvegicus] [R.norvegicus], ESTs, V [M.musculus], ESTs, Weakly similar [M.musculus], ESTs, Weakly similar DKFZp564P2063.1 [H.sapiens], ESTPOTEIN KINASE RECEPTOR TIE protein, RIKEN cDNA 61304011.20 g	Moderately similar to T17324 hypothetical ans], ESTs, Weakly similar to MEGF6 [Rattus Meakly similar to fibulin 5 [Mus musculus] r to T09065 hypothetical protein - mouse r to T17324 hypothetical protein TS, Weakly similar to TIE1 MOUSE TYROSINE-T-PRECURSOR [M.musculus], MEGF6, NEU1 gene, expressed sequence AW047140
7913 A1043849 ee, ff 23732 AA957653 ee, ff 6535 AA891746 l, m	1550	13293 4 17358 A		hh '	ELAV (embryonic lethal, abnormal vi (embryonic lethal, abnormal vision, I similar to ELV4_RAT ELAV-like prott HuD) (Hu-antigen D) [R.norvegicus], like protein 4 (Paraneoplastic encept [R.norvegicus], ESTs, Weakly similar ENCEPHALOMYELITIS ANTIGEN FINCEPHALOMYELITIS ANTIGEN	ision, Drosophila)-like 2 (Hu antigen B), ELAV Drosophila)-like 4 (Hu antigen D), ESTs, Highly lein 4 (Paraneoplastic encephalomyelitis antigen, ESTs, Moderately similar to ELV4_RAT ELAVhalomyelitis antigen HuD) (Hu-antigen D) in to HUD_HUMAN PARANEOPLASTIC
7913 Al043849 ee, ff 23732 AA957653 ee, ff 6535 AA891746 l, m	1328	17920 A		D ==	electron-transfer-tiavoprotein, beta p	oolypeptide hydrogenese
23732/AA957653 ee, ff 6535/AA891746 l, m	943	7913 A		æ, ff	ELL-related RNA polymerase II, elon MOUSE RNA POLYMERASE II ELO musculus, clone IMAGE:3583970, musculus, clone IMAGE:3583970, musculus, clone IMAGE:3583970, musculus, clone IMAGE:3583970, musculus, clone IMAGE:3583970, m	ngation factor, ESTs, Weakly similar to ELL NGATION FACTOR ELL [M.musculus], Mus IRNA, partial cds, RIKEN cDNA 9430098E02
6535 AA891746  i, m	699	23732 A		ee, ff	Ena-vasodilator stimulated phosphop expressed sequence A1528774, likely protein 1, vasodilator-stimulated phos	nearing gene, hypothetical protein FLJZ253/ protein, RNB6, enabled homolog (Drosophila), y ortholog of mouse NPC derived proline rich sohoprotein
	352	6535 A	VA891746	m'	endothelial differentiation-related fact	tor 1, expressed sequence AA409425

TABLE 3	3		Page 1	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	一 一
CHY		Can Bank Arc		V 405000 V 1000000	-
) D	GLGC ID No.	Vo.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related),
					expressed sequence Alababos I, neural precursor cell expressed, developmentally down-regulated gene 9, signal transduction protein (SH3 containing). v-crk-
1828		18694 NM_012931	j, k, gg		associated tyrosine kinase substrate
					enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related),
					expressed sequence Al385681, neural precursor cell expressed, developmentally
9					down-regulated gene 9, signal transduction protein (SH3 containing), v-crk-
1828		18695 NM_012931	j, k, y, z		associated tyrosine kinase substrate
88 88	.	23194 AA892417	99		ephrin A1, ephrin-A1
2205	- 1	21509 NM_030847	h, l, n, o		epithelial membrane protein 3
					ER to nucleus signalling 1, ESTs, Weakly similar to A34366 Ca2+/calmodulin-
					dependent protein kinase (EC 2.7.1.123) II delta chain - rat [R.norvegicus], Mus
					musculus, clone MGC:18731 IMAGE:3980838, mRNA, complete cds,
					calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha,
					calcium/calmodulin-dependent protein kinase (CaM kinase) II delta,
1737		25365 NM_012519	lı, v,		calcium/calmodulin-dependent protein kinase II, delta
-					ER to nucleus signalling 1, ESTs, Weakly similar to A34366 Ca2+/calmodulin-
				9	dependent protein kinase (EC 2.7.1.123) II delta chain - rat [R.norvegicus], Mus
					musculus, clone MGC:18731 IMAGE:3980838, mRNA, complete cds,
					calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha,
101	100			9	calcium/calmodulin-dependent protein kinase (CalM kinase) II delta,
1/3/	N 02/7	Z/35 NM_012519		3	calcium/calmodulin-dependent protein kinase II, delta
					ER to nucleus signalling 1, ESTs, Weakly similar to A34366 Ca2+/calmodulin-
			-	0	dependent protein kinase (EC 2.7.1.123) II delta chain - rat [R.norvegicus], Mus
					musculus, clone MGC:18731 IMAGE:3980838, mRNA, complete cds,
		•		0	calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha,
1	000			0	calcium/calmodulin-dependent protein kinase (CaM kinase) II delta,
1/3/	Z/30 N	Z/36 NM_012519	, K	0	calcium/calmodulin-dependent protein kinase II, delta
				ш.	EK transmembrane protein Dri 42, RIKEN cDNA 1810019D05 gene, phosphatidic
				<u> </u>	adia pilospirarase za, pilospiraridio adia pilospirarase type zA, prospiraridio adia
2136		8596 NM 022538		2. 6	physphiatase type ZD, phosphataic and phosphatase type ZD, phosphataic add
	l			2	הויטיקרומומים וואס בה

TABLE	3		A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR		日子子 (P. 1988)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SEO		GenBank Acc.			r	
Ω	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Ho	Human Homologous Sequence Cluster Title
					ER transm acid phosp	ER transmembrane protein Dri 42, RIKEN cDNA 1810019D05 gene, phosphatidic acid phosphatase 2a, phosphatidic acid phosphatase type 2A, phosphatidic acid
2136		8597 NM_022538	aa, bb, kk, II		phosphata phosphata	phosphatase type 2B, phosphatidic acid phosphatase type 2C, phosphatidic acid phosphatase type 2c
					erythrocyte	erythrocyte membrane protein band 4.2, transglutaminase 2 (C polypeptide, protein-
					glutamine	glutamine-gamma-glutamyltransferase), transglutaminase 2, C polypeptide,
2071		16NM_019386	cc, dd, kk		transglutan transglutan	transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase), Transglutaminase 3 E polypeptide transglutaminase 5 transglutaminase 7
					EST AA43	EST AA437822, Homo sapiens, Similar to phosphatidylinositol 4-kinase, catalytic,
					alpha polyp	alpha polypeptide, clone MGC:31920 IMAGE:4565073, mRNA, complete cds,
					phosphatid	phosphatidylinositol 4-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4-
000		000000	-		kinase, cat	kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, catalytic, gamma
0622		4684 NM_031083	ω', α		polypeptide	
					EST X8335	EST X83352, ESTs, Weakly similar to intracellular chloride ion channel protein
					p64H1 [Rat	p64H1 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 5730531E12 gene,
277		01708 01010001	a, n, o, x, z,		chloride intr	chloride intracellular channel 1, chloride intracellular channel 3, chloride intracellular
5	ł	1777 1014	W.		channel 4 (	channel 4 (mitochondrial), infracellular chloride ion channel protein p64H1
					EST, Highly	EST, Highly similar to phosphatidylinositol 3-kinase, regulatory subunit, polypeptide
					[Rattus non	[Rattus norvegicus] (R.norvegicus], ESTs, Moderately similar to P55G MOUSE
					PHOSPHA-	PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY GAMMA SUBUNIT (PI3.
					KINASE P8	KINASE P85-GAMMA SUBUNIT) (PTDINS-3-KINASE P85-GAMMA) (P55PIK)
7		7000			[M.musculu	[M.musculus], phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 2 (p85
61.1		11/21 AI103391	ee, π		beta), phos	beta), phosphoinositide-3-kinase, regulatory subunit, polypeptide 2 (p85 beta)
					EST, Highly	EST, Highly similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT
1	- 1	00000	:		[H.sapiens]	[H.sapiens], actin related protein 2/3 complex, subunit 1B (41 kD), actin related
<del>5</del> 007	101001	882810_ININI C1001	n, o, jj, KK, il		protein 2/3 (	protein 2/3 complex, subunit 1B (41 kDa)
					EST, Highly	EST, Highly similar to AR41_HUMAN ARP2/3 COMPLEX 41 KDA SUBUNIT
7200		00000	= = = = = =		[H.sapiens]	[H.sapiens], actin related protein 2/3 complex, subunit 1B (41 kD), actin related
4007	-	10010 MM_018288	a, 0,   , KK,		protein 2/3 o	protein 2/3 complex, subunit 1B (41 kDa)

TABLE 3	3			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Bakanon on Mona Leave, Ado Har.
CHV.		GenBank Acc			
<u>, o</u>	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ES1, Highly similar to CCAC_RA1 Voltage-dependent L-type calcium channel alpha
					1C subunit (Calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac
					muscle) (RAT brain class C) (RBC) [R.norvegicus], ESTs, Highly similar to
					CCAC_HUMAN VOLTAGE-DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1C
					SUBUNIT [H.sapiens], ESTs, Highly similar to CCAD_HUMAN VOLTAGE-
					DEPENDENT L-TYPE CALCIUM CHANNEL ALPHA-1D SUBUNIT [H.sapiens], Mus
		,			musculus putative ion channel protein CATSPER2 mRNA, complete cds, calcium
1/22		24662 M59786	l, m, jj, kk		channel, voltage-dependent, L type, alpha 1C subunit
					EST, Highly similar to DPOZ_HUMAN DNA POLYMERASE ZETA CATALYTIC
					SUBUNIT [H.sapiens], ESTs, Highly similar to DPOZ_HUMAN DNA POLYMERASE
					ZETA CATALYTIC SUBUNIT [H.sapiens], ESTs, Weakly similar to DPOZ_HUMAN
					DNA POLYMERASE ZETA CATALYTIC SUBUNIT [H.sapiens], REV3-like, catalytic
					subunit of DNA polymerase zeta (yeast), REV3-like, catalytic subunit of DNA
			:		polymerase zeta RAD54 like (S. cerevisiae), expressed sequence C77370,
1583	ļ	22939 AI236669	y, z, jj, kk		expressed sequence C77386
					EST, Highly similar to HEMO_RAT 5-AMINOLEVULINIC ACID SYNTHASE,
		_			ERYTHROID-SPECIFIC, MITOCHONDRIAL PRECURSOR (DELTA-
					AMINOLEVULINATE SYNTHASE) (DELTA-ALA SYNTHETASE) (ALAS-E)
					[R.norvegicus], ESTs, Highly similar to SYHUAE 5-aminolevulinate synthase
					[H.sapiens], aminolevulinate, delta-, synthase 2 (sideroblastic/hypochromic anemia),
					aminolevulinic acid synthase 1, aminolevulinic acid synthase 2, erythroid, glycine C-
-					acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase), glycine C-
1894	164481	16448 NM_013197	b, c, v		acetytransferase (2-amino-3-ketobutyrate-coenzyme A ligase)
	-				EST, Highly similar to HS9B MOUSE HEAT SHOCK PROTEIN HSP 90-BETA
					[M.musculus], EST, Weakly similar to HHMS84 heat shock protein 84 - mouse
					[M.musculus], ESTs, Highly similar to HS9A_HUMAN HEAT SHOCK PROTEIN
					HSP 90-ALPHA [H.sapiens], ESTs, Highly similar to T46243 hypothetical protein
-			:		DKFZp761K0511.1 [H.sapiens], expressed sequence C81438, heat shock 90kD
764	15849/	15849 AI008074			protein 1, beta, heat shock protein, 84 kDa 1, heat shock protein, 86 kDa 1

SEQ GenBank Acc ID GLGC ID No. 2461 15468 NM_053982 2686 18031 X94551 2686 18031 X94551	Acc. Model Code Human d d d; w, x, jj, kk	Homologous Known Gene Name	Human Homologous Sequence Cluster Title  EST, Highly similar to HSRT4 histone H4 - rat [R.norvegicus], EST, Moderately similar to HSHU4 histone H4 [H.sapiens], H4 histone family, member E, Mus musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, clone:1810029H14:histone 4 protein, full insert sequence, Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310067E17:histone 4 protein, full insert sequence
88 66 GL		Homologous Known Gene Name	quence Cluster Title  SRT4 histone H4 - rat [R.norvegicus], EST, Moderately e H4 [H.sapiens], H4 histone family, member E, Mus ile pancreas cDNA, RIKEN full-length enriched library, and 4 protein, full insert sequence, Mus musculus adult male II-length enriched library, clone:2310067E17:histone 4  noe
		EST, Highly similar to HS similar to HSHU4 histone musculus 10 day old male clone:1810029H14:histon tongue cDNA, RIKEN full protein, full insert sequen EST, Highly similar to JC: [R.norvegicus], ESTS, Highly Similar to JC:	SRT4 histone H4 - rat [R.norvegicus], EST, Moderately e H4 [H.sapiens], H4 histone family, member E, Mus lie pancreas cDNA, RIKEN full-length enriched library, one 4 protein, full insert sequence, Mus musculus adult male II-length enriched library, clone:2310067E17:histone 4 noe
		musculus 10 day old malk clone:1810029H14:histon tongue cDNA, RIKEN full protein, full insert sequen EST, Highly similar to JC; [R.norvegicus], ESTs, Hig	ile pancreas cDNA, RIKEN full-length enriched library, nne 4 protein, full insert sequence, Mus musculus adult male II-length enriched library, clone:2310067E17:histone 4 noe
		clone:1810029H14:histon tongue cDNA, RIKEN full. protein, full insert sequen EST, Highly similar to JC, [R.norvegicus], ESTs, Hig	ine 4 protein, full insert sequence, Mus musculus adult male II-length enriched library, clone:2310067E17:histone 4 nce
		tongue cDNA, RIKEN full. protein, full insert sequen. EST, Highly similar to JC; [R.norvegicus], ESTs, Highly Similar to JC;	II-length enriched library, clone:2310067E17:histone 4 noe noe 2224 rihosomal protein S15a outosolic fualidated a rat
		protein, full insert sequence EST, Highly similar to JC/ [R.norvegicus], ESTs, High	nce 2234 rikosomal protein S15a ovtosolic (validated) - rat
		EST, Highly similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to JC3 [R.norvegicus], ESTs, Highly Similar to	2034 rihosomal protein S15a cytosolic (validated) - rat
		[R.norvegicus], ESTs, Hiç	שנים בישחומו להמסחוני כינסם להמסחור לאשוחמופתל - זמו
			[R.norvegicus], ESTs, Highly similar to RS1A_HUMAN 40S RIBOSOMAL PROTEIN
		S15A [H.sapiens], ribosor	S15A [H.sapiens], ribosomal protein S15a
	-	EST, Highly similar to MY	YHA_RAT Myosin heavy chain, nonmuscle type B (Cellular
		myosin heavy chain, type	myosin heavy chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B)
		[R.norvegicus], ESTs, Hig	R.norvegicus], ESTs, Highly similar to MYHA_MOUSE Myosin heavy chain,
<b> </b>	-	nonmuscle type B (Celluk	nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy
		chain-B) (NMMHC-B) [M.1	chain-B) (NMMHC-B) [M.musculus], Homo sapiens cDNA: FLJ23324 fis, clone
		HEP12482, highly similar	HEP12482, highly similar to HUMMYOHCB Human nonmuscle myosin heavy chain-
		B (MYH10) mRNA, Myosi	B (MYH10) mRNA, Myosin heavy chain 11, RIKEN cDNA 5730504C04 gene,
	f, r	laminin, gamma 1	
		EST, Highly similar to R38	EST, Highly similar to R3RT3A ribosomal protein L23a, cytosolic [validated] - rat
		[R.norvegicus], EST, Wea	R.norvegicus], EST, Weakly similar to E54024 protein kinase [H.sapiens], ESTs,
	-1.4.	Highly similar to 60S RIBC	Highly similar to 60S RIBOSOMAL PROTEIN L23A [R.norvegicus], ESTs, Highly
		similar to RL2B_HUMAN	similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], Mus
		musculus, ribosomal profe	musculus, ribosomal protein L23a, clone IMAGE:4988735, mRNA, partial cds,
	w, ×	ribosomal protein L23a	
		EST, Highly similar to R3	EST, Highly similar to R3RT3A ribosomal protein L23a, cytosolic [validated] - rat
		[R.norvegicus], EST, Wea	[R.norvegicus], EST, Weakly similar to E54024 protein kinase [H.sapiens], ESTs,
		Highly similar to 60S RIBC	Highly similar to 60S RIBOSOMAL PROTEIN L23A [R.norvegicus], ESTs, Highly
		similar to RL2B_HUMAN t	similar to RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], Mus
		musculus, ribosomal prote	musculus, ribosomal protein L23a, clone IMAGE.4988735, mRNA, partial cds,
2671 20844 X65228	f, g, cc, dd	ribosomal protein L23a	

TABLE 3	3			一門の特別という。「は他の大利の一門の一門の一門の一門の一門の一門の一門の一門の一門の一門の一門の一門の一門の	\$125 Atty. Ref. 44921-5090-01-WO/2105485
SEO		GenBank Acc.			
₽	GLGC ID No.	No.	Model Code Human H	omologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Highly similar to RL8 HUMAN 60S ribosomal protein L8 [R.norvegicus]. EST.
					Weakly similar to JN0923 ribosomal protein L8, cytosolic [H.sapiens], ESTs, Highly
-					similar to R5RTL8 ribosomal protein L8, cytosolic [validated] - rat [R.norvegicus],
					ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [M.musculus],
					ESTs, Moderately similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L
404		15876 AA892582	g, w, x		[M.musculus], expressed sequence AL024098, ribosomal protein L8
					EST, Highly simitar to S611_HUMAN Protein transport protein Sec61 alpha subunit
					isoform 1 (Sec61 alpha-1) [R.norvegicus], ESTs, Highly similar to S611_HUMAN
					Protein transport protein Sec61 alpha subunit isoform 1 (Sec61 alpha-1)
					[R.norvegicus], SEC61, alpha subunit (S. cerevisiae), SEC61, alpha subunit 2 (S.
					cerevisiae), Sec61 alpha form 2, protein transport protein SEC61 alpha subunit
1481		21816 AI231217	-		isoform 1
					EST, Highly similar to SNX9_HUMAN SORTING NEXIN 9 (SH3 AND PX DOMAIN-
					CONTAINING PROTEIN 1) (SDP1 PROTEIN) [H.sapiens], Homo sapiens cDNA
671		23644 AA957808	99		FLJ11997 fis, clone HEMBB1001458, sorting nexin 9
	-				EST, Highly similar to STA3_RAT Signal transducer and activator of transcription 3
					[R.norvegicus], signal transducer and activator of transcription 3, signal transducer
1786		343 NM_012747	n, o		and activator of transcription 3 (acute-phase response factor)
					EST, Highly similar to T14106 probable GTPase-activating protein SPA-1 - rat
					[R.norvegicus], ESTs, Moderately similar to T14106 probable GTPase-activating
					protein SPA-1 - rat [R.norvegicus], KIAA0440 protein, RIKEN cDNA 2610511M17
					gene, Rap1, GTPase-activating protein 1, SPA-1 like protein p1294, expressed
1416		14337 AI180414	b, c, I, m		sequence AW213287
669	1	15885 AA965207	ţ		EST, Highly similar to 714795 hypothetical protein DKFZp434E171.1 [H.sapiens]

TABLE 3	3		, i	A STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE TO THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE THE STANKE T	Affiv Ref MADAL STORM NATIONAL STORM Ref MADAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STORM NATIONAL STOR
SEO		GenBank Acc.			WARRING CO.
٩	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Hömologous Sequence Cluster Title
					LS1, Moderately similar to HLA-B-associated transcript 1A; DNA segment, Chr 17, human D6S81E 1; nuclear RNA helicase Bat1 [Mus musculus] [M.musculus], EST.
					Weakly similar to HE47_RAT Probable ATP-dependent RNA helicase p47
					[R.norvegicus], ESTs, Moderately similar to IF41_HUMAN EUKARYOTIC
					INITIATION FACTOR 4A-1 [M.musculus], ESTs, Weakly similar to HE47 RAT
					FRUDABLE ALY-DEPENDENT KNA HELICASE P47 [K.norvegicus], HLA-B- lassociated transcript 1A RIKFN cDNA 2410004K13 gene RIKEN CDNA
		,			2600001H07 gene, RIKEN cDNA 2610307C23 gene, eukaryotic translation initiation
493	3822,	3822 AA900863	춫		factor 4A, isoform 1, eukaryotic translation initiation factor 4A1
					EST, Moderately similar to HLA-B-associated transcript 1A; DNA segment, Chr 17, human D6S81E 1; nuclear RNA helicase Bart IMins misculus I M misculus   EST
					Weakly similar to HE47_RAT Probable ATP-dependent RNA helicase p47
					[R.norvegicus], ESTs, Moderately similar to IF41_HUMAN EUKARYOTIC
					INITIATION FACTOR 4A-I [M.musculus], ESTs, Weakly similar to HE47 RAT
					PROBABLE ATP-DEPENDENT RNA HELICASE P47 (R.norvegious), HLA-B-
	-				associated transcript 1A, RIKEN cDNA 2410004K13 gene, RIKEN cDNA
2	- 0	17.70			2600001H07 gene, RIKEN cDNA 2610307C23 gene, eukaryotic translation initiation
1524	38237	3823 AI233147	y, z		factor 4A, isoform 1, eukaryotic translation initiation factor 4A1
	•				EST, Moderately similar to RIKEN cDNA 1700113O17 [Mus musculus]
					[M.musculus], H2A histone family, member L, Homo sapiens, clone MGC:21597
	_				IMAGE:4511035, mRNA, complete cds, Mus musculus, similar to H2A histone
6		6077004			family, member O, clone MGC:36202 IMAGE:5055276, mRNA, complete cds,
122	701157	23115 AA8U1165	O		expressed sequence R75370
	_				EST, Moderately similar to tripeptidylpeptidase II [Rattus norvegicus]
200	40707	100000	;		[R.norvegicus], ESTs, Highly similar to TRIPEPTIDYL-PEPTIDASE II [M.musculus],
/077	134031	13465 NINI 03113/	E .		tripeptidyl peptidase II
					EST, Moderately similar to tripeptidy/peptidase II [Rattus norvegicus]
1	00,1	107700			[R.norvegicus], ESTs, Highly similar to TRIPEPTIDYL-PEPTIDASE II [M.musculus],
/077	13480	15486 NM_U3113/	×, ×		tripeptidyl peptidase II
					EST, Moderately similar to 0710252A histone H3 [H.sapiens], ESTs, Highly similar
					inistone - rat fR norvenicus H3 histone family member I Homo canione Histone
1186	14524	14524 AI137974	q		gene complex 1, clone MGC:9629 IMAGE:3913365, mRNA, complete cds

TABLE	E 3		ان انها ا	の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の一般の	SECTION TO CONTRACT THE REF AND PLENDING SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTI
SEQ ID	GLGC ID No.	GenBank Acc.	Model Code	Human Homologous Known Gene Name	nan Homològous Seguence Cluster Title
2		14980/Al103396	E		EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.saplens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.saplens]
7		14981 AI103396	· ·		EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.sapiens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.sapiens]
8		14983 A1179150	bb, cc, dd		EST, Moderately similar to 0806162B cytochrome b [M.musculus], EST, Moderately similar to 810024B cytochrome b [H.sapiens], EST, Weakly similar to 0806162B cytochrome b [M.musculus], EST, Weakly similar to 0812187A cytochrome b [Rattus norvegicus] [R.norvegicus], EST, Weakly similar to 810024M URF 6 [H.sapiens]
1129		16136 AI103983	b a		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]
Ö		16130 J01435	q		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]
2388		16135 NM_053516	aa, bb		EST, Moderately similar to 0806162C protein COI [M.musculus], EST, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], EST, Weakly similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 0806162C protein COI [M.musculus], ESTs, Moderately similar to 810024C cytochrome oxidase I [H.sapiens], ESTs, Weakly similar to 0806162C protein COI [M.musculus]

TABLE	3		र्गोध	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	10001010101010101010101010101010101010
SEO	•	GenBank Acc.			
Ω.	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Moderately similar to 2021415A initiation factor 4E-binding
					processing of the company of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
					eukaryotic translation initiation factor 4E binding protein 1, eukaryotic translation
					Initiation factor 4E binding protein 2, eukaryotic translation initiation factor 4E
2444		1570 NM_053857	s, t		binding protein 3
					EST, Moderately similar to 2021415A initiation factor 4E-binding
					protein:ISOTYPE=1 [H.sapiens], ESTs, Weakly similar to A55258 insulin-stimulated
					phosphoprotein PHAS-I - rat [R.norvegicus], RIKEN cDNA 1110004O12 gene,
					eukaryotic translation initiation factor 4E binding protein 1, eukaryotic translation
					Initiation factor 4E binding protein 2, eukaryotic translation initiation factor 4E
2444		1571 NM_053857	e, t, kk		binding protein 3
					EST, Moderately similar to 40S RIBOSOMAL PROTEIN S25 [R.norvegicus], EST,
					Moderately similar to R3RT25 ribosomal protein S25, cytosolic [validated] - rat
					[R.norvegicus], EST, Weakly similar to 40S RIBOSOMAL PROTEIN S25
					[R.norvegicus], EST, Weakly similar to JQ1347 ribosomal protein S25, cytosolic
					[H.sapiens], ESTs, Highly similar to JQ1347 ribosomal protein S25, cytosolic
2668		15387 X62482	w, x		[H.sapiens], ribosomal protein S25
					EST, Moderately similar to A Chain A, Structure Of Human Guanylate Binding
					Protein-1 In Nucleotide Free Form [H.sapiens], ESTs, Weakly similar to
					INTERFERON-INDUCED GUANYLATE-BINDING PROTEIN 1 [M.musculus], Homo
					sapiens mRNA; cDNA DKFZp564C2478 (from clone DKFZp564C2478); complete
					cds, guanylate binding protein 1, interferon-inducible, 67kD, guanylate binding
					protein 2, interferon-inducible, guanylate nucleotide binding protein 1, guanylate
2534	Ì	14995 NM_133624	q		nucleotide binding protein 2
					FST Moderately similar to 405074 vimentin IH saniens1 FST Weakly similar to
					A25074 vimentin [H saniens] FSTs. Weakly similar to A25074 vimentin [H saniens]
					Mus musculus, similar to FLJ00074 protein, clone MGC:36549 IMAGE:4952810
2259		15185 NM_031140	lı, bb, ll		mRNA, complete cds, desmuslin, intermediate filament-like MGC:2625, vimentin
	ļ				

TABLE 3		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
SEO		GenBank Acc			OFCOLDIOAT DEDGOE TACK TOO THE
L Q	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					LSV, Moderately similar to Abo146 guanine nucleotide exchange ractor elir-zb cetta chain long firm - motise IM misculus I STs. Moderately similar to EDBA. HI MAAN
					TRANSLATION INITIATION FACTOR EIF-2B ALPHA SUBUNIT IH.sapiens), ESTS,
					Weakly similar to 2112359A initiation factor eIF-2B [Rattus norvegicus]
					[R.norvegicus], Mus musculus, Similar to eukaryotic translation initiation factor 2B,
					subunit 1 (alpha, 26kD), clone MGC:6458 IMAGE:2615801, mRNA, complete cds,
					Mus musculus, Similar to eukaryotic translation initiation factor 2B, subunit 2 (beta,
					(39kD), clone MGC:7057 IMAGE:3156632, mRNA, complete cds, RIKEN cDNA
					2410018C20 gene, eukaryotic translation initiation factor 2B, subunit 1 (alpha,
8		23950 AI031019	s, t		26kD)
					EST, Moderately similar to CL36_HUMAN LIM DOMAIN PROTEIN CLP-36
					[H.sapiens], ESTs, Weakly similar to A55050 enigma [H.sapiens], ESTs, Weakly
					similar to PDL1_RAT PDZ and LIM domain protein 1 (LIM domain protein CLP-36)
					(C-terminal LIM domain protein 1) (Elfin) [R.norvegicus], Homo sapiens cDNA:
					FLJ23564 fis, clone LNG10773, Homo sapiens, Similar to enigma homolog (R.
					norvegicus), clone MGC:23807 iMAGE:4271274, mRNA, complete cds, LIM domain
-					binding 3, PDZ and LIM domain 1 (elfin), PDZ and LIM domain 3, RIKEN cDNA
					2410002J21 gene, expressed sequence AV278559, expressed sequence
133		21927 AI104117	w, ×		AW123232, paxillin, transforming growth factor beta 1 induced transcript 1
					EST, Moderately similar to CL36_HUMAN LIM DOMAIN PROTEIN CLP-36
					[H.sapiens], ESTs, Weakly similar to PDL1_RAT PDZ and LIM domain protein 1
					(LIM domain protein CLP-36) (C-terminal LIM domain protein 1) (Elfin)
A1					[R.norvegicus], Mus musculus, clone MGC:37634 IMAGE:4990983, mRNA,
					complete cds, PDZ and LIM domain 1 (elfin), PDZ and LIM domain 3, PDZ-LIM
			p, u, v, ee,		protein mystique, Rattus norvegicus LIM-domain protein LMP-1 mRNA, complete
746		3799 AF002281	ff, Kk, ∥		cds, alpha-actinin-2-associated LIM protein
					EST, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR
				•	[H.sapiens], EST, Weakly similar to COF1_HUMAN COFILIN, NON-MUSCLE
					ISOFOR [H.sapiens], ESTs, Highly similar to DEST_HUMAN DESTRIN [H.sapiens],
					ESTs, Moderately similar to COF1_HUMAN COFILIN, NON-MUSCLE ISOFOR
					[H.sapiens], Homo sapiens cDNA FLJ30934 fis, clone FEBRA2007017, moderately
1291	١	7740 AI175011	ر. به ا		similar to Homo sapiens TRAF4-associated factor 2 mRNA

TABLE 3	က			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Table 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
SEO		GenBank Acc.			
۵	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
	_				EST, Moderately similar to COXI_MOUSE Cytochrome c oxidase polypeptide VIC-2 [R.norvegicus], ESTs, Moderately similar to COXH_HUMAN CYTOCHROME C
2065	23225	23225 NM 019360	Ú		OXIDASE POLYPEPTIDE VIC PRECURSOR [H.sapiens], cytochrome c oxidase submit VIc
					EST, Moderately similar to 602654 ribosomal protein L39 (H.sapiens), EST,
					Moderately similar to RL39_HUMAN 60S ribosomal protein L39 [R.norvegicus],
					ESTs, Highly similar to G02654 ribosomal protein L39 [H.sapiens], ESTs,
					Moderately similar to G02654 ribosomal protein L39 [H.sapiens], RIKEN cDNA
1812	20945	20945 NM_012875	g S		28104650/16 gene, RIKEN cDNA 3930402110 gene, RIKEN cDNA 4930517K11 gene, ribosomal protein L39. ribosomal protein L39-like
					EST, Moderately similar to G02666 cysteine-rich protein 1 [H.sapiens], cysteine rich
					intestinal protein, cysteine-rich protein 1 (intestinal), expressed sequence
532	23173	23173 AA925057	h, I, w, x		AW743261
	-				FST Moderately similar to GR75 HI MAN MITOCHONDBIAL STDESS 20
					PROTEIN PRECURSOR (H. sapiens). ESTs. Highly similar to 156581 dnaK-tyne
					molecular chaperone drp75 precursor - rat IR.norvedicus). ESTs. Moderately similar
					to GR75_HUMAN MITOCHONDRIAL STRESS-70 PROTEIN PRECURSOR
7608	17626	17626 S78556	66		[H.sapiens], heat shock 70kD protein 9B (mortalin-2), heat shock protein, 74 kDa, A
				-	EST, Moderately similar to 158311 HMG-box containing protein 1 - rat
					[R.norvegicus], ESTs, Highly similar to 158311 HMG-box containing protein 1 - rat
				٠	[R.norvegicus], ESTs, Moderately similar to 158311 HMG-box containing protein 1 -
					rat [R.norvegicus], HMG-box containing protein 1, Mus musculus, Similar to protein
					kinase, lysine deficient 4, clone IMAGE:4973225, mRNA, partial cds, RIKEN cDNA
1901	1495	1495 NM_013221	y, z, aa, bb		1200010B10 gene, RIKEN cDNA 1700058O05 gene
					EST, Moderately similar to ISI1_RAT Insulin-induced protein 1 (Insulin-induced
					growth response protein CL-6) (Immediate-early protein CL-6) [R.norvegious],
2110	22412	22412 NM_022392	p, q		RIKEN cDNA 2900053111 gene, insulin induced gene 1, insulin induced protein 2
	,				EST, Moderately similar to JQ1522 peptidylprolyl isomerase [H.sapiens], ESTs,
					Moderately similar to 1613455A FK506 binding protein FKBP [H.sapiens], FK506
		7 6000714			binding protein 3 (25kD), FK506 binding protein 7, FK506 binding protein 9 (63 kD),
112/1	44021,	440Z AI1038/4	_		FK506 binding protein precursor, hypothetical protein FLJ20731

TABLE 3	3	. '*s.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			奇	1000011-0001-10001-10001-10001-10001-10001-10001-10548F
SEQ		GenBank Acc.					
Ω,	GLGC ID No.	No	Model Code	Human	Homologous Known Gene Name	·	Human Homologous Sequence Cluster Title
							EST, Moderately similar to KAP0 RAT CAMP-DEPENDENT PROTEIN KINASE
						-	TYPE I-ALPHA REGULATORY CHAIN [R.norvegicus], EST, Weakly similar to
							KAP1 MOUSE CAMP-DEPENDENT PROTEIN KINASE TYPE I-BETA
							REGULATORY CHAIN [M.musculus], profein kinase, cAMP dependent regulatory,
							type I beta, protein kinase, cAMP dependent regulatory, type I, alpha, protein
1889	`	1314 NM_013181	Į				kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)
							ESI, Moderately similar to MASZ_HUMAN MANNAN-BINDING LECTIN SERINE
							PROTEASE 2 PRECURSOR [H.sapiens], ESTs, Moderately similar to
							CRAR_HUMAN COMPLEMENT-ACTIVATING COMPONENT OF RA-REACTIVE
							FACTOR PRECURSOR [H.sapiens], Mus musculus, Similar to complement
							component 1, s subcomponent, clone MGC:19094 IMAGE:4196654, mRNA,
							complete cds, Mus musculus, Similar to complement component 1, s
							subcomponent, clone MGC:28492 IMAGE:4166254, mRNA, complete cds,
							complement component 1, r subcomponent, complement component 1, s
2562		8867 NM 138900	p, c				subcomponent, mannan-binding lectin serine protease 2
							EST, Moderately similar to MDHM_RAT MALATE DEHYDROGENASE,
							MITOCHONDRIAL PRECURSOR [R.norvegicus], EST, Weakly similar to DEMSMM
							malate dehydrogenase [M.musculus], malate dehydrogenase 2, NAD
2126		162 NM_022516	e, u, v				(mitochondrial), malate dehydrogenase, mitochondrial
							EST, Moderately similar to PLSB MOUSE GLYCEROL-3-PHOSPHATE
							ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], EST,
							Weakly similar to PLSB_RAT GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE,
							MITOCHONDRIAL PRECURSOR (GPAT) [R.norvegicus], ESTs, Weakly similar to
							GLYCEROL-3-PHOSPHATE ACYLTRANSFERASE PRECURSOR [M.musculus],
							ESTs, Weakly similar to PLSB MOUSE GLYCEROL-3-PHOSPHATE
							ACYLTRANSFERASE, MITOCHONDRIAL PRECURSOR [M.musculus], KIAA1560
1989 889		20281 NM_017274	99				protein, glycerol-3-phosphate acyltransferase, mitochondrial

TABLE 3	E.3		Mark Contraction	は、一般では、一般では、これでは、一般では、これでは、一般では、一般では、これでは、一般では、これでは、一般では、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ	All Def AA004 FROM DAY AND A SHORT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA
SEO		GenBank Acc.			3,500
₽	GLGC ID No.	No.	Model Code Human	e Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Moderately similar to PYC_RAT Pyruvate carboxylase, mitochondrial precursor (Pyruvic carboxylase) (PCR) IR populated Museume Cimilar to
					Probionyl Coenzyme A carboxylase, alpha polypeptide, clone MGC-11973
_					IMAGE:3601148, mRNA, complete cds, pyruvate carboxylase, pyruvate
1785		1478 NM_012744	n, o		decarboxylase
					EST, Moderately Similar to KEMS_HUMAN PUTATIVE KNA-BINDING PRUTEIN 8
					[H.sapiens], ESTs, Moderately similar to NUCLEOLIN [M.musculus], ESTs,
					Moderately similar to RBM8_HUMAN PUTATIVE RNA-BINDING PROTEIN 8
					[H.sapiens], ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens],
					Homo sapiens, clone MGC:22221 IMAGE:4687764, mRNA, complete cds, Mus
					musculus, Similar to fusion, derived from t(12,16) malignant liposarcoma, clone
					MGC:18917 IMAGE:3153860, mRNA, complete cds, Nucleolin, RNA binding motif
					protein 8A, TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated
					factor, 68 kDa, eukaryotic translation initiation factor 3, subunit 4 (delta, 44 kDa).
1193		18206 AI145282	a, jj, kk		nucleolin, pigpen
					EST, Moderately similar to RL17_HUMAN 60S RIBUSOMAL PROTEIN L17
					[H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17
					[R.norvegicus], EST, Weakly similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN
					L17 [H.sapiens], ESTs, Highly similar to R5HU22 ribosomal protein L17, cytosolic
					[H.sapiens], ESTs, Highly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17
					[R.norvegicus], ESTs, Weakly similar to R5HU22 ribosomal protein L17, cytosolic
					[H.sapiens], Mus musculus adult female placenta cDNA, RIKEN full length enriched
,		00000			library, clone:1600029O15:hexokinase 1, full insert sequence, ribosomal protein
7091	-	1/1/4 NIM_013030	E,		L17
					ES I, Moderately similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN L17
					[H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17
					[R.norvegicus], EST, Weakly similar to RL17_HUMAN 60S RIBOSOMAL PROTEIN
					L17 [H.sapiens], ESTs, Highly similar to R5HU22 ribosomal protein L17, cytosolic
					[H.sapiens], ESTs, Highly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17
					[R.norvegicus], ESTs, Weakly similar to R5HU22 ribosomal protein L17, cytosolic
					[H. sapiens], Mus musculus adult female placenta cDNA, RIKEN full-length enriched
0000	27476	0,000	4		library, clone:1600029O15:hexokinase 1, full insert sequence, ribosomal protein
7007	ı	700212			L17

TABLE 3	3	,	57.4	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	and the first to the distance of the second	Atty, Ref. 4492/15090-01-WO/2105485
SEO		GenBank Acc.				
Ω	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	own Gene Name	Human Homologous Sequence Cluster Title
						EST, Moderately similar to RL35_HUMAN 60S RIBOSOMAL PROTEIN L3
						[H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN
						L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial cds,
46		17212 AA799571				ribosomal protein L35
						EST, Moderately similar to RL35_HUMAN 60S RIBOSOWAL PROTEIN L3
						[H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN
						L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial cds,
1716		17211 M34331	cc, dd			ribosomal protein L35
						EST, Moderately similar to RL35_HUMAN 60S RIBOSOMAL PROTEIN L3
						[H.sapiens], EST, Moderately similar to RL35_RAT 60S RIBOSOMAL PROTEIN
						L35 [R.norvegicus], Homo sapiens, clone IMAGE:4183312, mRNA, partial ods,
1716		26030 M34331	9			ribosomal protein L35
						EST, Moderately similar to RS12_HUMAN 40S RIBOSOMAL PROTEIN S1
						[H.sapiens], ESTs, Moderately similar to R3HU12 ribosomal protein S12, cytosolic
						[H.sapiens], ESTs, Moderately similar to RS12 MOUSE 40S RIBOSOMAL
2318	- 1	16918 NM_031709	g, h, I, w, x			PROTEIN S12 [M.musculus], ribosomal protein S12
						EST, Moderately similar to RS2 MOUSE 40S RIBOSOMAL PROTEIN S2
						[M.musculus], EST, Weakly similar to ribosomal protein S2, 40S ribosomal protein
						S2 [Homo sapiens] [H.sapiens], EST, Weakly similar to RS2_HUMAN 40S
						RIBOSOMAL PROTEIN S2 [H.sapiens], EST, Weakly similar to RS2_RAT 40S
				•		RIBOSOMAL PROTEIN S2 [R.norvegicus], ESTs, Highly similar to ribosomal
						protein S2; 40S ribosomal protein S2 [Homo sapiens] [H.sapiens], ESTs, Highly
						similar to ribosomal protein S2; repeat family 3 gene [Mus musculus] [M.musculus],
2338		10269 NM_031838	h, I, w, x			Homo sapiens, clone IMAGE:4816496, mRNA, partial cds, ribosomal protein S2
		!				EST, Moderately similar to RS21_RAT 40S RIBOSOMAL PROTEIN S21
2244	- 1	19162NM_031111	h, I			[R.norvegicus], ribosomal protein S21

TABLE 3	3				TO THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL
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Ω	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
288		0800 A1000411	_ _ 	EST, Moc EST, Wes ESTs, Hig ESTs, Mo ESTs, Mo IH.sapien	EST, Moderately similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], EST, Weakly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Highly similar to RS3_MOUSE 40S ribosomal protein S3 [R.norvegicus], ESTs, Moderately similar to RS3_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapiens], ESTs, Weakly similar to RS3 MOUSE 40S RIBOSOMAL PROTEIN S3 [M.musculus], hypothetical protein FLJ1252, hypothetical protein FLJ23059, myo-
1555		11644 AI235282		EST, Mod mouse [M receptor p macroglot receptor-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macroglot-p macr	inostrol 1-phosphate synthase A1, ribosomal protein S3 EST, Moderafely similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Highly similar to S25111 alpha-2-macroglobulin receptor precursor - mouse [M.musculus], ESTs, Weakly similar to S25111 alpha-2- macroglobulin receptor precursor - mouse [M.musculus], low density lipoprotein receptor-related protein 1, low density lipoprotein-related protein 1 (alpha-2- macroglobulin receptor)
383	13647,	3647 AA892367	w, x, cc, dd	EST, Mod Weakly sir similar to Similar to Similar to Similar to Meakly sir Neakly sir RIKEN cD	EST, Moderately similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], EST, Weakly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Highly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Moderately similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus], ESTs, Weakly similar to RL3 MOUSE 60S RIBOSOMAL PROTEIN L3 [M.musculus], RIKEN cDNA 1110057H16 gene, ribosomal protein L3, ribosomal protein L3-like
2667	13646	13646 X62166	n, o, w, x, kk, ll	EST, Mode Weakly sin Similar to Similar to Similar to Formular to Formular to Formular to Formular to Formular sin Similar to Formular sin Similar to Formular sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin Similar sin	EST, Moderately similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], EST, Weakly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Highly similar to S34195 ribosomal protein L3, cytosolic [H.sapiens], ESTs, Moderately similar to RL3_RAT 60S RIBOSOMAL PROTEIN L3 (L4) [R.norvegicus], ESTs, Weakly similar to RL3 MOUSE 60S RIBOSOMAL PROTEIN L3 (M.musculus), RIKEN cDNA 1110057H16 gene, ribosomal protein 13, ribosomal protein 13, ribosomal
520	18251	18251 AA924548	jį. Kk	EST, Mode Weakly sin Weakly sin 4930401B	EST, Moderately similar to S65792 ribosomal protein L9, cytosolic [H.sapiens], EST, Weakly similar to RL9_RAT 60S RIBOSOMAL PROTEIN L9 [R.norvegicus], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L9 [M.musculus], RIKEN cDNA 4930401B11 gene, ribosomal protein L9

TABLE	ന		). ). (3)	a service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the serv	BONDONO NO BOOM YOUNG THE BOND TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BONDON TO THE BOND
SEO	· .	GenBank Acc.			
<u>Ω</u>	GC 1D	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Highly similar to SMHU1B metallothionein 1R IH sanians   H sanians mRNA for
					metallothionein isoform 1R, Homo sapiens metallothionein 1H-like protein mRNA.
					complete cds, Homo sapiens unknown mRNA, Homo sapiens, Similar to RNA
					helicase-related protein, clone MGC:9246 IMAGE:3892441, mRNA, complete cds,
	`	000			Mus musculus, metallothionein 2A, clone MGC:30400 IMAGE:4501155, mRNA,
1082		5192/AI101099	- ×	•	complete cds, metallothionein 1H, metallothionein 1X, metallothionein 2
	<u>_</u>				EST, Moderately similar to SMHU1E metallothionein 1E [H.sapiens], ESTs, Highly
		_			similar to SMHU1B metallothionein 1B [H.sapiens], H.sapiens mRNA for
		-			metallothionein isoform 1R, Homo sapiens metallothionein 1H-like protein mRNA,
					. complete cds, Homo sapiens unknown mRNA, Homo sapiens, Similar to RNA
					helicase-related protein, clone MGC:9246 IMAGE:3892441, mRNA, complete cds,
- 6			h, l, j, k, y,		Mus musculus, metallothionein 2A, clone MGC:30400 IMAGE:4501155, mRNA,
1330	15191 A	AI176456	z, ee, ff, kk		complete cds, metallothionein 1H, metallothionein 1X, metallothionein 2
					EST, Weakly Similar to Cammineracyicaminne nansiocase, minocnononal cammine-
					acylcarnitine translocase gene [Mus musculus] [M.musculus], ESTs, Weakly similar
					to solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 (Rattus
					norvegicus] [R.norvegicus], ESTs, Weakly similar to MCAT_HUMAN
	•				MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN [H.sapiens],
*****	-				Homo sapiens, similar to solute carrier family 25 (carnitine/acylcarnitine
					Iranslocase), member 20, clone MGC:35539 IMAGE:5200129, mRNA, complete
					cds, Mus musculus, Similar to CG4995 gene product, clone MGC:7958
					IMAGE:3584570, mRNA, complete cds, expressed sequence AW491445,
					expressed sequence W51672, ornithine transporter 2, solute carrier family 25
					(carnitine/acylcarnitine translocase), member 20, solute carrier family 25
					(mitochondrial carnitine/acylcarnitine translocase), member 20, solute carrier family
i					25 (mitochondrial carrier, adenine nucleotide translocator), member 3, solute carrier
2456	16546IN	16546 NM_053965	hh		Ifamily 25 (mitochondrial carrier; ornithine transporter) member 15

Human Homologous Sequence Cluste  Es1, weavy similar to Caminine/ary acylcanitine transiocase gene [Mus ratio solute carrier famity 25 (camiline/an orvegicus] [R.norvegicus], ESTs, We MITOCHONDRIAL CARNITINE/ACYL Homo sapiens, similar to solute carrier translocase), member 20, clone MGC, cds, Mus musculus, Similar to CG4998 [MAGE:3584570, mRNA, complete cd expressed sequence W51672, ornitini (caminine/acylcaminine translocase), right (mitochondrial carrier, adenine nuct family 25 (mitochondrial carrier, ornitini EST, Weakly similar to cyclin-depend [R.norvegicus], ESTs, Moderately similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy EST, Weakly similar to H2A-FIZ vy H2A-FIZ vy H2A-FIZ vy H2A-FIZ vy H2A-FIZ v	TABLE	<b>c</b> is			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	できた。 - 大学の
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16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						conformition franchones again the missional Managing FOTS Madel at the
16547 NIM_053965 hh 20902 NIM_053593 r 9254 AA892470 e 16942 AA799520 e						decylcarinine iransocasa gene [ivius niusculus] [ivi.niusculus], ES15, Weakly similar
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e		•				to solute carrier raining 20 (carrinine) acytearinine (ransiocase), member 20 (Raidus
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						norvegicus] [K.norvegicus], ESTs, Weakly similar to MCAT_HUMAN
16547 NM_053965 hh 20902 NM_053965 hh 9264 AA892470 e 16942 AA799520 e						MITOCHONDRIAL CARNITINE/ACYLCARNITINE CARRIER PROTEIN (H.sapiens)
16547 NM_053965 hh 20902 NM_053593 r 9264 AA892470 e 16942 AA799520 e						Homo sapiens, similar to solute carrier family 25 (carnitine/acylcarnitine
16547 NIM_053965 hh 20902 NIM_053593 r 9254 AA892470 e 16942 AA799520 e		-				translocase), member 20, clone MGC:35539 IMAGE:5200129, mRNA, complete
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						cds, Mus musculus, Similar to CG4995 gene product, clone MGC:7958
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						IMAGE:3584570, mRNA, complete cds, expressed sequence AW491445,
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						expressed sequence W51672, ornithine transporter 2, solute carrier family 25
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						(carnitine/acylcarnitine translocase), member 20, solute carrier family 25
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e				-		(mitochondrial carnitine/acylcarnitine translocase), member 20, solute carrier family
16547 NM_053965 hh 20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						25 (mitochondrial carrier; adenine nucleotide translocator), member 3, solute carrier
20902 NM_053593	2456	16547	NM_053965	౼		family 25 (mitochondrial carrier; ornithine transporter) member 15
20902 NM_053593						EST, Weakly similar to cyclin-dependent kinase 4 [Rattus norvegicus]
20902 NM_053593						[R.norvegicus], ESTs, Moderately similar to cyclin-dependent kinase 4 [Rattus
20902 NM_053593						norvegicus] [R.norvegicus], ESTs, Moderately similar to CDK4 MOUSE CELL
20902 NM_053593 r 9254 AA892470 e 16942 AA799520 e						DIVISION PROTEIN KINASE 4 [M.musculus], cyclin-dependent kinase 4, cyclin-
9254 AA892470 e 16942 AA799520 e 904 NM_019620 p	2405	20902	VM_053593	<b>1</b>		dependent kinase 6
9254 AA892470 e 16942 AA799520 e 904 NM_019620 p						EST, Weakly similar to histone H2A.F/Z variant [Homo sapiens] [H.sapiens], ESTs,
9254 AA892470 e 16942 AA799520 e 904 NM_019620 p						Weakly similar to H2AZ_HUMAN HISTONE H2A [H.sapiens], H2A histone family,
9254 AA892470		,				member Z, Homo sapiens cDNA FLJ32241 fis, clone PLACE6005231, RIKEN cDNA
16942 AA799520 e 904 NM_019620 p	390	9254	4A892470	ø		C530002L11 gene, histone H2A.F/Z variant
16942 AA799520 e 904 NM_019620 p						EST, Weakly similar to integral membrane protein 28 [Homo sapiens] [H.sapiens],
904 NM_019620 p	93	16942	4A799520	е		integral membrane protein 2B
904 NM_019620 p						EST, Weakly similar to Kruppel associated box (KRAB) zinc linger 1 [Rattus
904 NM_019620 p						norvegicus] [R.norvegicus], EST, Weakly similar to ZINC FINGER PROTEIN 91
904 NM_019620 p						[H.sapiens], ESTs, Moderately similar to DNA-binding protein; zinc finger protein
904 NM_019620 p						253 [Homo sapiens] [H.sapiens], ESTs, Moderately similar to ZINC FINGER
904 NM_019620   p						PROTEIN 91 [H.sapiens], Mus musculus, Similar to RIKEN cDNA 2610036F08
904 NM_019620 p						gene, clone MGC:28645 IMAGE:4224834, mRNA, complete cds, expressed
304 NW_U1362U (p	000	3	00000	1		sequence Al790734, expressed sequence AU021768, zinc finger protein 386
	707	304	141M 018020	2		(Kruppel-like), zinc tinger protein 91 (HPF7, HTF10)

TABLE 3	3		Same	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	AMBICIAN FOR A MODI STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF TH
SEO D	GLGC ID No.	GenBank Acc. No.	Model Code Human H	omologous Kr	logous Seguence Cluster Title
2645	ĺ	20810 X14181	f, g, w, x		EST, Weakly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens] [H.sapiens], ESTs, Highly similar to ribosomal protein L18a; 60S ribosomal protein L18a [Homo sapiens]
. 353	18269	18269 AA891769	Φ		EST, Weakly similar to SC65 synaptonemal complex protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to SC65 synaptonemal complex protein [Rattus norvegicus] [R.norvegicus], SC65 synaptonemal complex protein, cartilage associated protein, growth suppressor 1, nucleolar autoantigen (55kD) similar to rat synaptonemal complex protein
14	6917	6917 AA012709	þ		EST, Weakly similar to splicing factor 3b, subunit 1, 155 kDa [Mus musculus] [M. musculus], ESTs, Weakly similar to S3B1_HUMAN Splicing factor 3B subunit 1 (Spliceosome associated protein 155) (SAP 155) (SF3b155) (Pre-mRNA splicing factor SF3b 155 kDa subunit) [H.sapiens], splicing factor 3b, subunit 1, 155 kDa, splicing factor 3b, subunit 1, 155kD
1368	22691/	22691 A1177967	r, aa, bb		EST, Weakly similar to transforming growth factor-beta (TGF-beta) masking protein large subunit [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to FIBRILLIN 2 PRECURSOR [M.musculus], ESTs, Weakly similar to A57293 latent transforming growth factor beta-binding protein 3 precursor - mouse [M.musculus], RIKEN cDNA 2310046A13 gene, latent transforming growth factor beta binding protein 1, transforming growth factor-beta (TGF-beta) masking protein large subunit
2487	18122	18122 NM_057208	h, I		EST, Weakly similar to tropomyosin 3, gamma [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to TPMN_HUMAN TROPOMYOSIN, CYTOSKELETAL TYPE [H.sapiens], ESTs, Moderately similar to TROPOMYOSIN 5, CYTOSKELETAL TYPE [M.musculus]
2458	15135	15135 NM_053971	h, l, n, o, w, x		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ribosomal protein L6
2458	151361	15136 NM_053971	h, I, w, ii		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L6 [M.musculus], ribosomal protein L6
200	22026	22026 AA850060	n, o		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene

TABLE 3	3			State of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	Atty, Ref. 44921-5090-01-WO/2105485
SEQ 10	GLGC ID No.	GenBank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
200		22028 44850060	<del>-</del> 5		EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784 fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKF70566G0746 RIKEN cDNA 3830414F09 gene
					EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784
278	•	16029 AA874803	 		Its, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746. RIKEN cDNA 3830414F09 gene
					EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784
278		16030 AA874803	. <u></u>		fis, clone NT2RP4000448, highly similar to Homo sapiens mRNA; cDNA DKFZp566G0746, RIKEN cDNA 3830414F09 gene
					EST, Weakly similar to 810024L URF 5 [H.sapiens], Homo sapiens cDNA FLJ10784
		22030 AI011177	_		its, cione in Larradoudato, riginiy similar to nomo sapiens mikiva, culiva DKFZp566G0746, RIKEN cDNA 3830414F09 gene
	İ				ES1, Weakly similar to A22940 keratin, 67K type II cytoskeletal [H.sapiens], ES1,
					Weakly similar to FORMIN 4 [M.musculus], ESTs, Weakly similar to FMN2_MOUSE
					Formin 2 [M.musculus], ESTs, Weakly similar to FORMIN 4 [M.musculus], ESTs,
					weakly sithia to LOKI MOOSE LORIOKNI jiw.tinsculusj, KINEN CONA A330103N21 nene, expressed seguence A1854843, expressed seguence
					AW742646, formin 2, hypothetical protein BC012775, hypothetical protein
					FLJ20584, similar to Wiskott-Aldrich syndrome protein interacting protein, uridine-
2591		1760 NM_147211	d, kk		cytidine kinase 1
					EST, Weakly similar to A32852 membrane alanyi aminopeptidase (EC 3.4.11.2) - ref IB nonserious ESTs. Weakly similar to AMDN MOLISE AMINOPEDTIDASE N
					[M.musculus], RIKEN cDNA 2010111101 gene, RIKEN cDNA 4833403115 gene,
					alanyl (membrane) aminopeptidase, alanyl (membrane) aminopeptidase
2215		1540 NM_031012	Ľ		(aminopeptidase N, aminopeptidase M, microsomal aminopeptidase, CD13, p150)
					EST, Weakly similar to A33880 syndecan 2 [H.sapiens], Mus musculus, clone
					IMAGE:4983756, mRNA, partial cds, syndecan 2, syndecan 2 (heparan sulfate
1863		1529 NM_013082	hh h		proteoglycan 1, cell surface-associated, fibroglycan)
					EST, Weakly similar to A38712 fibrillarin [H.sapiens], EST, Weakly similar to FBRL MOUSE FIBELL ADIN M. PRINCIPLE MACARATAIN similar to FIBELL ADIN
648	·	17540 AA955914	œ		[W.musculus], expressed sequence AL022665, fibrillarin
					EST, Weakly similar to A38712 fibrillarin [H.sapiens], ESTs, Moderately similar to
1248		22432 AI171263	a, z		FIBRILLARIN [M.musculus], fibrillarin

Homologous Known Gene Name	TABLE 3	က			(株) (人名音) (一) (大) (大) (大) (大) (大) (大) (大) (大) (大) (大	
OLGC ID   Mo.   Model Code   Human Homologous Known Gene Name   13633   NM_024403   e, p, q, y, z	SEO		GenBank Acc.			
13633 NM_024403	≘	GLGC ID	No.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
13633 NIM_024403					EST	EST, Weakly similar to A45377 transcription factor ATF4 [H.sapiens], ESTs, Highly
13633 NIM_024403			-		simils	similar to A45377 transcription factor ATF4 [H.sapiens], activating transcription
13634 NM_024403 9, 2, 2  2103 NM_053597 9  3292 NM_031531 a, j, k  17145 M38566 99  22614 Al031004 t	207		NIM 004400	;	facto	factor 4, activating transcription factor 4 (tax-responsive enhancer element B67),
13634 NM_024403 y, z  2103 NM_053597 g  3292 NM_031531 a, j, k  17145 M38566 gg  17146 Y07534 aa  22614 Al031004 t	7817	1	INIM_024403	e, p, q, y, z	activ	vating transcription factor 5
13634 NNM_024403 y, z  2103 NNM_053597 g  3292 NNM_031531 a, j, k  17145 M38566 gg  17146 Y07534 aa  22614 Al031004 t					EST	EST, Weakly similar to A45377 transcription factor ATF4 [H.sapiens], ESTs, Highly
13634 NIM_024403 y, z  2103 NIM_053597 g  3292 NIM_031531 a, j, k  17145 M38566 gg  17146 Y07534 aa  22614 AI031004 t					simil	similar to A45377 transcription factor ATF4 [H.sapiens], activating transcription
13634 NM_024403 y, z  2103 NM_053597 g  3292 NM_031531 a, j, k  17145 M38566 gg  17146 Y07534 aa  22614 AI031004 t				a, j, K, p, q,	facto	factor 4, activating transcription factor 4 (tax-responsive enhancer element B67).
2103 NM_053597 g 3292 NM_031531 a, j, k 17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t	219		INM_024403	y, z	activ	vating transcription factor 5
2103 NM_053597 g 3292 NM_031531 a.j.k 17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t					EST	EST, Weakly similar to A48045 ribosomal protein S27, cytosolic [H.sapiens], ESTs,
22614 AI031004 t				-	High	Highly similar to A48045 ribosomal protein S27, cytosolic (H.sapiens), ribosomal
3292 NM_031531 a, j, k 17145 M38566 gg 17146 Y07534 aa 22614 A1031004 t	2407		NM_053597	g	prote	protein S27 (metallopanstimulin 1), ribosomal protein S27-like
3292 NM_031531 a, j, k 17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t					EST,	EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN
3292 NM_031531 a, j, k 17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t					PRE	PRECURSOR [H.sapiens], RIKEN cDNA 4833409F13 gene, serine protease
17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t	2278		NM_031531	a, j, <del>k</del>	dinhib	oitor 2-2
17145 M38566 gg 17146 Y07534 aa 22614 Al031004 t					EST,	EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN
17146 W31004 t					PREC	PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha-2
17146 Y07534 aa 17146 Y07534 aa 22614 Al031004 t	1				antip	antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor
17146 Y07534 aa 22614 Al031004 t	8171		M38566	99	2-2	
17146 Y07534 aa 22614 Al031004 t					EST	EST, Weakly similar to AACT_HUMAN ALPHA-1-ANTICHYMOTRYPSIN
17146 Y07534 aa 22614 Al031004 t					PREC	PRECURSOR [H.sapiens], serine (or cysteine) proteinase inhibitor, clade F (alpha-2
17.146 Y07534 aa 22614 A1031004 t					antip	antiplasmin, pigment epithelium derived factor), member 2, serine protease inhibitor
22614 A031004 t	6897 7		Y07534	aa	2-2	
22614 A031004 t					רומם.	ESI, Weakly similar to B36298 proline-rich protein PRB35 [H.sapiens], ESI,
22614 A031004 t					Weak	Weakly similar to CGHU3B collagen alpha 3(IV) chain precursor, long splice form
22614 A031004 t					[H.sa	[H.sapiens], EST, Weakly similar to D40750 proline-rich protein PRB1/2S
22614 A031004 t					[H.sa	[H.sapiens], EST, Weakly similar to PIHUB6 salivary proline-rich protein precursor
22614 A1031004 t					PRB1	PRB1 [H.sapiens], EST, Weakly similar to PRP1_HUMAN SALIVARY PROLINE-
22614 A031004 t					RICH	RICH PROTEIN PRECURSOR [H.sapiens], Mus musculus adult male tongue
22614/A031004 t					CDN≠	cDNA, RIKEN full-length enriched library, clone:2310039K21:SRY-box containing
22614 Al031004   t					gene	gene 7, full insert sequence, SRY (sex determining region Y)-box 17, SRY (sex
22014 Alu3 1004 I	Š		4004004	-	deten	determining region Y)-box 18, SRY (sex determining region Y)-box 7, SRY-box
	325		AIU3 1004	1	conta	aining gene 17

TABLE 3	3	*	: 	10年間の「一大の一大の一大の一大の一大の一大の一大の一大の一大の一大の一大の一大の一大の一	TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANION TO TAMPOLOTANI TAMPOLOTANION TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLOTANI TAMPOLO
SEO		GenBank Acc.			2007
<u>0</u> :	GLGC ID No.	No.	Model Code	Human Homologous Known Gene Name	 Human Homologous Sequence Cluster Title
					EST, Weakly similar to B41222 upiquitin-protein ilgase [H.sapiens], ESTS, Highly
					similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus], ESTs,
					Highly similar to A41222 ubiquitinprotein ligase [H.sapiens], ESTs, Moderately
					similar to B41222 ubiquitinprotein ligase [H.sapiens], ESTs, Weakly similar to
					UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus],
					RIKEN cDNA 2610301N02 gene, expressed sequence Al327276, ubiquitin-
					conjugating enzyme E2A (RAD6 homolog), ubiquitin-conjugating enzyme E2A,
					RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2B (RAD6 homolog),
i					ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-
54	`	17380 AA799612	w, x		conjugating enzyme E2C
					ES1, Weakly Similar to B41ZZZ ubiquitinprotein ligase [H.Sapiens], ES1S, Hignly
					similar to ubiquitin conjugating enzyme [Rattus norvegicus] [R.norvegicus], ESTs,
					Highly similar to A41222 ubiquitinprotein ligase [H.sapiens], ESTs, Moderately
7					similar to B41222 ubiquitinprotein ligase [H.sapiens], ESTs, Weakly similar to
					UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus],
					RIKEN cDNA 2610301N02 gene, expressed sequence Al327276, ubiquitin-
					conjugating enzyme E2A (RAD6 homolog), ubiquitin-conjugating enzyme E2A,
					RAD6 homolog (S. cerevisiae), ubiquitin-conjugating enzyme E2B (RAD6 homolog),
	. !				ubiquitin-conjugating enzyme E2B, RAD6 homology (S. cerevisiae), ubiquitin-
gc77	1/3/91	1/3/9 NM_031138	r, w, x		conjugating enzyme E2C
	· · · · · ·				ESI, Weakly similar to B41222 ubiquitinprotein ligase [H.sapiens], ESTS, Highiy
					similar to A41222 ubiquitinprotein ligase [H.sapiens], ESTs, Weakly similar to
					UBC2_HUMAN UBIQUITIN-CONJUGATING ENZYME E2-17 KD [M.musculus],
					RIKEN cDNA 2610301N02 gene, expressed sequence Al327276, ubiquitin
					conjugating enzyme, ubiquitin-conjugating enzyme E2A (RAD6 homolog), ubiquitin-
					conjugating enzyme E2A, RAD6 homolog (S. cerevisiae), ubiquitin-conjugating
3			:		enzyme E2B (RAD6 homolog), ubiquitin-conjugating enzyme E2B, RAD6 homology
648	-	23357 AA956114	g, dd		(S. cerevisiae), ubiquitin-conjugating enzyme E2C

TABLE 3	3		(1) (1)	を 2000年 1900年 1900年 1900年 1900年 1900年 1900年 1900年 1	4
SEO		GenBank Acc.			Auy. Rel. 4492 1:3030-01-WO/Z 103460
<u>-</u>	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				EST, Weakly	EST, Weakly similar to beta-fibrinogen precursor [H.sapiens], ESTs, Moderately
				SITHIBAT TO AN	Similar to ANL 2_MOUSE Angiopoletin-related protein 2 precursor (Angiopoletin-like
				Z) [W.Hiusou	2) [w.:riusculus], wus musculus, similar to angiopoletin-related protein 5, clone MGC:32487 IM44GE:5040765, mBNA, complete cds, Musculus, Similar to
		_		(fibrinooniali)	MOCKSETOT MANOCESOTS ON HINNAY, COMPRETE CLOS, MUS HINSCHIUS, SIMILIER (C. HINDORDELIKE 1. CHARA MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSOSSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKETSON, MACKET
				S ALDIDANCE	institute on it and it along the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the con
				angiopoietin	angiopojetin-like 2, angiopojetin-related protein 5. expressed sequence A1593246
88		4253 A1013566	jj, kk	hypothetical	hypothetical protein FLJ11286
		,		EST, Weakly	EST, Weakly similar to CATM_HUMAN CATHEPSIN L2 PRECURSOR
				(CATHEPSIN	(CATHEPSIN V) (CATHEPSIN U) [H.sapiens], EST, Weakly similar to TES1_RAT
				TESTIN 1/2 F	TESTIN 1/2 PRECURSOR (CMB-22/CMB-23) [P.norvegicus], RIKEN cDNA
				4930486L24	4930486L24 gene, Rattus norvegicus testin mRNA, complete cds, cytotoxic T
1461	- }	22484 AI230591	=	lymphocyte-e	ymphocyte-associated protein 2 alpha
				EST, Weakly	EST, Weakly similar to CBP MOUSE CREB-BINDING PROTEIN [M.musculus],
	-			ESTs, Highly	ESTs, Highly similar to BRD4_HUMAN BROMODOMAIN-CONTAINING PROTEIN
				4 (HUNK1 PF	4 (HUNK1 PROTEIN) [H.sapiens], ESTs, Highly similar to CBP MOUSE CREB-
			-	BINDING PR	BINDING PROTEIN [M.musculus], ESTs, Moderately similar to CBP MOUSE CREB-
				ANDING PA	BINDING PROTEIN [M.musculus], ESTs, Weakly similar to CBP MOUSE CREB-
983	1	2662 AI045686	Ф	BINDING PR	BINDING PROTEIN [M.musculus], bromodomain-containing 4
	-			EST, Weakly	EST, Weakly similar to DYJ2_HUMAN DYNEIN LIGHT INTERMEDIATE CHAIN 2,
				CYTOSOLIC	CYTOSOLIC [H.sapiens], LIC-2 dynein light intermediate chain 53/55, RIKEN cDNA
1				1110053F02	1110053F02 gene, dynein light chain-A, dynein, cytoplasmic, light intermediate
79.	9746,	9746 AI009555	_	polypeptide 2	polypeptide 2, expressed sequence AA409702
				EST. Weakly	EST. Weakly similar to DX.12 HI IMAN DXNEIN I IGHT INTERMEDIATE CHAIN 2
	· vr a.v			CALOSOFIC	CYTOSOLIC IH.sapiens), RIKEN cDNA 1110053F02 gene. Raffus norvegicus
				dynein light in	dynein light intermediate chain 1 mRNA, complete cds, dynein light chain-A, dynein.
2219		16210 NM_031026	£,	cytoplasmic, I	cytoplasmic, light intermediate polypeptide 2, expressed sequence AA409702
				EST, Weakly	EST, Weakly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Highly
				similar to HHI	similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Moderately similar to
			a, o, q, ee,	HHHU27 hear	HHHU27 heat shock protein 27 [H.sapiens], heat shock 27kD protein 1, hypothetical
2341		17734 NM_031970	<b>元</b> 交	protein MGC10974	10974

Human Homologous Sequence Cl EST, Weakly similar to HHHU27 heat shock pro HHHU27 heat shock protein 27 [H protein MGC10974 EST, Weakly similar to HHHU27 h similar to HHHU27 heat shock protein 27 [H protein MGC10974 EST, Weakly similar to HXK2 MOUSE H Moderately similar to HXK2 MOUSE H EST, Weakly similar to HXK2 MOUSE H CST, Weakly similar to HXK3 HUM/ Weakly similar to HXK2 MOUSE H 2, hexokinase 3 (white cell) EST, Weakly similar to 139159 GTI [H.sapiens], ESTs, Moderately sim binding protein G(I)/G(S)/G(O) gan similar to GBGB_HUMAN Guanine gamma-11 subunit [R.norvegicus], nucleotide binding protein (G protein 11 EST, Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN Weakly similar to OZF_HUMAN ZIN	TABLE				の 「	AND AND DATE AND ASSESSED DATE AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER AND LOS ENDER
GLGC ID No. Model Code Human Homologous Known Gene Name  341 17735 NM_031970 kk  43 1. 0, q, ee,  433 15615 NM_053800 h, I  44 23705 NM_022179 h, I, w, x, dd  45 23705 NM_022396 e, j, k, ii	SEO		GenBank Acc.		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	
17735 NM_031970 kx 17736 NM_031970 ff, kx 15615 NM_053800 h, 1 17100 NM_022179 h, 1, w, x, dd 22705 NM_022396 e, j, k, ii	₽	GLGC ID	No.	Model Code	Homologous Known Gene Name	ologous Sequence Cluster Title
17735 NM_031970 kK 17736 NM_031970 kK 15615 NM_031970 ff, kK 17100 NM_022179 h, i, w, x, dd 23705 NM_022396 e, j, k, ii					EST, Weakly similar to HHF	EST, Weakly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Highly similar to HHHU27 heat shock protein 27 IH saniens1 ESTs. Moderately similar to
17736 NM_031970				a, z, ee, ff,	HHHU27 heat	HHHU27 heat shock protein 27 [H.sapiens], heat shock 27kD protein 1, hypothetical
17736 NM_031970	2341		NM_031970	爻	protein MGC1	10974
17736 NM_031970					EST, Weakly	EST, Weakly similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Highly
17736 NM_031970					similar to HHF	similar to HHHU27 heat shock protein 27 [H.sapiens], ESTs, Moderately similar to
17736 NM_031970				a, I, o, q, ee,	HHHU27 heat	HHHU27 heat shock protein 27 [H.sapiens], heat shock 27kD protein 1, hypothetical
15615 NM_053800 h, I  17100 NM_022179 h, I, w, x, dd  23705 NM_022396 e, j, k, ii  20232 NM_017364 u, v	2341		NM_031970	ff, KK	protein MGC1	10974
15615 NM_053800 h, l 17100 NM_022179 h, l, w, x, dd 23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v	9				EST, Weakly s	EST, Weakly similar to Human Thioredoxin [H.sapiens], RIKEN cDNA 4930429J24
17100 NM_022179 h, i, w, x, dd 23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v	2433		NM_053800	- h, l	gene, thioredo	oxin, thioredoxin 1
23705 NM_022396					EST, Weakly s	EST, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], ESTs,
23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v					Moderately sin	Moderately similar to HXK3_HUMAN HEXOKINASE TYPE III [H.sapiens], ESTs,
23705 NM_022396					Weakly similar	Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase
23705 NM_022396	2093	`	NM_022179	h, I, w, x, dd	2, hexokinase	: 3 (white cell)
23705 NM_022396					EST, Weakly 3	similar to 139159 GTP-binding regulatory protein gamma-11 chain
23705NM_022396 e, j. k, ii 20232 NM_017364 u, v					[H.sapiens], E	[H.sapiens], ESTs, Moderately similar to GBGB_HUMAN Guanine nucleotide-
23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v					binding protein	binding protein G(I)/G(S)/G(O) gamma-11 subunit [R.norvegicus], ESTs, Weakly
23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v					similar to GBG	similar to GBGB_HUMAN Guanine nucleotide-binding protein G(I)/G(S)/G(O)
23705 NM_022396					gamma-11 sut	gamma-11 subunit [R.norvegicus], RIKEN cDNA 0610037B21 gene, guanine
23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v					nucleotide binc	nucleotide binding protein (G protein), gamma 1 subunit, guanine nucleotide binding
23705 NM_022396		<u>.</u>			protein (G prot	protein (G protein), gamma transducing activity polypeptide 1, guanine nucleotide
23705 NM_022396 e, j, k, ii 20232 NM_017364 u, v				:	binding protein	binding protein (G protein), gamma transducing activity polypeptide 2, guanine
20232 NM_017364   u, v	7114		NM_022396	К, н	nucleotide binc	ding protein 11
20232 NM_017364   u, v					EST, Weakly s	EST, Weakly similar to 149636 DNA-binding protein - mouse [M.musculus], ESTs,
20232 NM_017364   u, v					Highly similar t	Highly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs,
20232 NM_017364   u, v					Weakly similar	Weakly similar to OZF MOUSE ZINC FINGER PROTEIN OZF [M.musculus], ESTs,
20232 NM_017364   u, v					Weakly similar	Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], Mus
20232 NM_017364   u, v					musculus, clon	musculus, clone MGC:37070 IMAGE:4951074, mRNA, complete cds, RIKEN cDNA
20232 NM_017364   u, v	-				2810039B14 g	2810039B14 gene, RIKEN cDNA 2810054M15 gene, zinc finger protein 146, zinc
	2013	- 1	NM_017364	n, v	finger protein 2	260, zinc finger protein 63

TABLE	es.			The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	CONTROL OF COORDINATORY AND COMPANY AND CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONT
SEO		GenBank Acc.		C.	
<u>.</u>	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
	•				EST, Weakly similar to IF6_HUMAN EUKARYOTIC TRANSLATION INITIATION
					FACTOR 6 In Sabiens), ESTS, rignly similar to Tro_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 IH saniens] Mus muserulus 40 days
					neonate cerebellum cDNA, RIKEN full-length enriched library,
1573		22212 A1236294	14		clone:6530402L05:integrin beta 4 binding protein, full insert sequence, integrin beta
	ľ	1	NN N		4 binding protein
	_				EST, Weakly similar to IMB3_HUMAN IMPORTIN BETA-3 SUBUNIT [H.sapiens],
1181	_	7414 AI137586	a		Homo sapiens cDNA FLJ12978 fis, clone NT2RP2006321, RAN binding protein 6, importin 4
					IIIIpoliiii 4
					EST, Weakly similar to JC1241 beta-interferon-induced protein - rat [R.norvegious]
					ESTs, Moderately similar to JC1241 beta-interferon-induced protein - rat
					[R.norvegicus], Mus musculus, clone MGC:31632 IMAGE:4511454, mRNA,
70	7	00110014		<u> </u>	complete cds, RIKEN cDNA 1110036C17 gene, interferon induced transmembrane
R	11208/	11208/AIZ37586	폿		protein 2 (1-8D)
					EST, Weakly similar to JC2324 LIM protein [H.sapiens], ESTS, Weakly similar to
					JG0164 LIM protein, FHL4 - mouse [M.musculus], Homo sapiens cDNA FLJ13238
				-	fis, clone OVARC1000440, Homo sapiens cDNA FLJ31627 fis, clone
				_	NT2RI2003338, RIKEN cDNA 2410002J21 gene, activator of cAMP-responsive
					element modulator (CREM) in testis, expressed sequence AI481106, expressed
				6	sequence AV278559, expressed sequence AW123232, hypothetical protein
004	40404	0400	1	D.	FLJ10044, paxillin, testis derived transcript (3 LIM domains), transforming growth
80	13400	A34444Z	ς, DΩ		factor beta 1 induced transcript 1
					EST, Weakly similar to JC2324 LIM protein [H.sapiens], Homo sapiens cDNA
				u.	FLJ13238 fis, clone OVARC1000440, RIKEN cDNA 2410002J21 gene, expressed
ů	0000	470007	=	S	sequence AV278559, expressed sequence AW123232, hypothetical protein
8	72007	ZUUSZ AA/ 9963/	= '-		FLJ10044, paxillin, transforming growth factor beta 1 induced transcript 1
					=S1, Weakly similar to JC5111 cyclin-dependent kinase-related protein 1b - rat
					R.norvegicus], EST, Weakly similar to S10889 proline-rich protein [H.sapiens],
					ESTS, Highly similar to KPT1 MOUSE SERINE/THREONINE-PROTEIN KINASE
				<u>a.</u>	PCTAIRE-1 [M.musculus], ESTs, Weakly similar to KPT1 MOUSE
000	000	140,000	-	0	SERINE/THREONINE-PROTEIN KINASE PCTAIRE-1 [M.musculus], PCTAIRE
0777	ulnnacz	//0150 MINIODOCZ	D, I, m	a	protein kinase 1, PCTAIRE-motif protein kinase 1

TABLE	3				
SEQ ID GI	ပ ၁၅	GenBank Acc. No.	Model Code	Human Homologous Known Gene Name	Auty, INST. 14921-3030-01-WOLZ 103483
					EST, Weakly similar to JC5111 cyclin-dependent kinase-related protein 1b - rat
					ESTS, Highly similar to KPT1 MOUSE SERINE/THREONINE-PROTEIN KINASE
					PCTAIRE-1 [M.musculus], ESTs, Weakly similar to KPT1 MOUSE SENINETHREONINE-PROTEIN KINASE PCTAIRE-1 M misculus PCTAIRE
2228	İ	6349 NM_031077	ee, ff		protein kinase 1, PCTAIRE-motif protein kinase 1
	<del></del>				EST, Weakly similar to JC5399 dual leucine zipper kinase (EC 2.7) - rat
	-				[rio/vegicus], E31s, nighily similar to A33318 serine/tineonine protein kinase [M.musculus]. ESTs. Weakly similar to JC5399 dual leucine zinner kinase (EC 2.7.)
2575		21840 MM 420242	<u>ب</u> د		) - rat [R.norvegicus], ankyrin repeat domain 3, expressed sequence C81508,
6262		NIVI_138342	aa		receptor (TNFRSF)-interacting serine-threonine kinase 1
					EST, Weakly similar to LDVR_RAT Very low-density lipoprotein receptor precursor
			-		(VLDL receptor) [R.norvegicus], ESTs, Weakly similar to LDVR MOUSE VERY
					LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR [M.musculus], ESTs,
					Weakly similar to LDVR_RAT Very low-density lipoprotein receptor precursor (VLDL
1881	24867	24867 NM 013155	¥		receptor, I.K.norvegrcus), low density lipoprotein receptor-related protein 8,
					EST, Weakly similar to MOHU6N myosin alkali light chain 6 nonmuscle form
					[H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali,
316	24470/	24470 AA875523	aa, bb		smooth muscle and non-muscle
					EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form
316	24471	24474 4 4875523			[H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali,
2		07001010	=		smooth muscle and non-muscle
					I'H sarions] mysein linkf shair alloli saramasi "I'rli sarions" i'rli '' '' '' '' '' '' '' '' '' '' '' '' ''
316	24472	24472 AA875523	=		t i saptensi i i i yosii i iigii ciiairi, aikari, riorii ii osee, Tityosiit, Iigiit polypeptide o, alkali, smooth musela and oon-musela
					EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form
•					[H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali.
464	244737	24473 AA894200	٩		smooth muscle and non-muscle
					EST, Weakly similar to MOHU6N myosin alkali light chain 6, nonmuscle form
2000	034460 677060	077050	· <u>-</u>		[H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypeptide 6, alkali,
70007	760447	01 1000			smooth muscle and non-muscle

Human Homologous Sequence Cluster Title ES1, Weakly similar to P2YX_R41 UDP-gluu receptor GPR105) (VTR 15-20) [R. norvegicu GPRY_MOUSE PROBABLE G PROTEIN-CG [M.musculus], ESTs, Weakly similar to P2YX coupled receptor GPR105) (VTR 15-20) [R.n 105, G protein-coupled receptor 34, G protein coupled receptor BTR PR105) (VTR 15-20) [R.n 105, G protein-coupled receptor 34, G protein coupled receptor BTR PR05 [M. 16.30] EST, Weakly similar to PR07 MOUSE PR05 similar to PR02_HUMAN PR0FILIN II [H.sapiens], MK EST, Weakly similar to PR37 MOUSE 26S P [M. musculus], RIKEN cDNA 2300001E01 ge 26S subunit, ATPase 2, syntaxin 8 EST, Weakly similar to PR38 MOUSE 26S P [M. musculus], Homo sapiens mRNA; cDNA [ DKFZp667C165, protease (prosome, macropain) 26S subunit, ATPase, 6 EST, Weakly similar to RGHUP1 acidic ribose EST, Weakly similar to RCH1 MOUSE RAS-F [M. musculus], expressed sequence A12596s EST, Weakly similar to RLA1 MOUSE RAS-F [M. musculus], ESTs, Weakly similar to Crysts Rap2a With Gdp {SUB 1-167 [H.sapiens], ES RAS-RELATED PROTEIN RAL-A [M. musculus], oncogene homolog A (ras related)	TABLE	3	5.7	1 1 1 1 1 1	the Sharest Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o		Attv. Ref. 44921-5090-01-WO/2105485
GLGC ID   No.   Model Code   Human Homologous Known Gene Name   17296   U76206   ji, kk	SEO		GenBank Acc.	:			
2109 NM_022511 n, o, w, x 2577 NM_032336 r 1291 NM_031149 c, r 24521 AA945636 g, h, l	으	GLGC ID	No.	Model Code	Human Homologous Known Ge	ene Name	Human Homologous Sequence Cluster Title
2109 NM_022511 n, o, w, x 2577 NM_033236 r 1291 NM_031149 c, r 24521 AA945636 g, h, l							EST, Weakly similar to P2YX_RAT UDP-glucose receptor (G protein-coupled recentor GPR105) (VTR 15-20) (R nowerieus) ESTs. Weakly similar to
17296   U76206 jj, kk 2109   NM_022511 n, o, w, x 2577   NM_031149 c, r 24521   AA945636 g, h, 1							GPRY_MOUSE PROBABLE G PROTEIN-COUPLED RECEPTOR GPR34
17296 U76206 jj, kk 2109 NM_022511 n, o, w, x 1297 NM_033236 r 1291 NM_031149 c, r 24521 AA945636 g, h, 1							[M.musculus], ESTs, Weakly similar to P2YX_RAT UDP-glucose receptor (G protein
17296 U76206 jj, kk 2109 NIM_022511 n, o, w, x 2577 NIM_033236 r 1291 NIM_031149 c, r 24521 AA945636 g, h, l							coupled receptor GPR105) (VTR 15-20) [R.norvegicus], G protein-coupled receptor
17296 U76206 jj, kk 2109 NIM_022511 n, o, w, x 2577 NIM_033236 r 1291 NIM_031149 c, r 24521 AA945636 g, h, i 15201 NIM_031093 h, i, w							105, G protein-coupled receptor 34, G protein-coupled receptor 86, G protein-
17296 U76206 Jj. KK 2109 NM_022511 n, o, w, x 2577 NM_033236 r 1291 NM_031149 c, r 24521 AA945636 g, h, i 15201 NM_031093 h, i, w				:			coupled receptor 87, Purinergic receptor P2Y, G protein-coupled, 12, platelet
2577 NM_033236	2633		U76206	<u>;;</u>			activating receptor homolog
2577 NM_033236							EST, Weakly similar to PRO1 MOUSE PROFILIN I [M.musculus], EST, Weakly
2577 NM_033236							similar to PRO2_HUMAN PROFILIN II [H.sapiens], ESTs, Weakly similar to
2577 NM_031236	2123		NM_022511	n, o, w, x			PRO2_HUMAN PROFILIN II [H.sapiens], Mk1 protein, profilin 1
2577 NM_031236							EST, Weakly similar to PRS7 MOUSE 26S PROTEASE REGULATORY SUBUNIT 7
2577 NM_033236							[M.musculus], RIKEN cDNA 2300001E01 gene, proteasome (prosome, macropain)
1291 NM_031149 c, r 24521 AA945636 g, h, i 15201 NM_031093 h, l, w	2357		NM_033236	_			26S subunit, ATPase 2, syntaxin 8
1291 NM_031093 h, l, w							EST, Weakly similar to PRS8 MOUSE 26S PROTEASE REGULATORY SUBUNIT 8
1291 NM_031149 c, r 24521 AA945636 g, h, i 15201 NM_031093 h, l, w							[M.musculus], Homo sapiens mRNA; cDNA DKFZp58611420 (from clone
1291 NM_031149							DKFZp58611420); partial cds, YME1-like 1 (S. cerevisiae), hypothetical protein
1291 NM_031149							DKFZp667C165, protease (prosome, macropain) 26S subunit, ATPase 5,
1291 NM_031149   c, r 24521 AA945636   g, h, l 15201 NM_031093   h, l, w							proteasome (prosome, macropain) 26S subunit, ATPase, 5, proteasome (prosome,
24521 AA945636 g, h, i 15201 NM_031093 h, l, w	2263		NM_031149	С, г			macropain) 26S subunit, ATPase, 6
24521 AA945636 g, h, I 15201 NM_031093 h, I, w							EST, Weakly similar to R6HUP1 acidic ribosomal protein P1, cytosolic [H.sapiens],
24521 AA945636 g, h, l 15201 NM_031093 h, l, w							ESTs, Highly similar to R6HUP1 acidic ribosomal protein P1, cytosolic [H.sapiens],
24521 AA945636 g, h, i 15201 NM_031093 h, l, w							ESTs, Weakly similar to RLA1 MOUSE 60S ACIDIC RIBOSOMAL PROTEIN P1
15201 NM_031093 h, l, w	909		AA945636	g, h, l			[M.musculus], expressed sequence Al255964, ribosomal protein, large, P1
15201 NM_031093 h, l, w							EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A
15201 NM_031093 h, l, w							[M.musculus], ESTs, Weakly similar to Crystal Structure Of The Small G Protein
15201 NM_031093  h, l, w			•				Rap2a With Gdp (SUB 1-167 [H.sapiens], ESTs, Weakly similar to RALA MOUSE
15201 NM_031093  h, l, w							RAS-RELATED PROTEIN RAL-A [M.musculus], v-ral simian leukemia viral
	2232	1	NM_031093	h, l, w			oncogene homolog A (ras related)

TABL	TABLE 3	*.	Time.		20,20,000,000
SEO		GenBank Acc.		Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	JI-WO/2105485
으	GLGC.ID No.	No.	Model Code Human	luman Homologous Known Gene Name Human Homologous Sequence Cluster Title	
				EST, Weakly similar to RALA MOUSE RAS-RELATED PROTEIN RAL-A	I-A
				[M.musculus], ESTs, Weakly similar to Crystal Structure Of The Small G Protein	II G Protein
			ر خ پ	Rapža With Gdp {SUB 1-167 [H.sapiens], ESTs, Weakly similar to RALA MOUSE	ALA MOUSE
2232		15202 NM 031093	', ', ', ', ', ', ', ', ', ', ', ', ', '	RAS-RELATED PROTEIN RAL-A [M.musculus], v-ral simian leukemia viral	ia viral
	1			Uncogenie nomiong A (ras related)	
				IM miscilius 10 Macking medical control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	L-A
				[w.niuscurds], Edis, wedakiy similar to crystar structure of the small G Protein [Rap2a With Gdp (Stiff 1.167 IH sanians] EGTs Weskiy similar to bot a Motros	II G Protein
,				RAS-RELATED PROTEIN RAL-A IM. musculus], v-ral simian leukemia viral	ייייי פיייי
2232		15203 NM_031093	aa, bb	oncogene homolog A (ras related)	3
				EST, Weakly similar to RB6K MOUSE RABKINESIN-6 [M.musculus], ESTs, Weakly	ESTs, Weakly
		000		similar to RB6K MOUSE RABKINESIN-6 [M.musculus], RAB6 interacting, kinesin-	fing, kinesin-
1200		11337 AI145968	Ε,	like (rabkinesin6), Rab6, kinesin-like	5
				EST, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN L12	12
7200	-	*01010	:	[H.sapiens], ESTs, Weakly similar to RL12_HUMAN 60S RIBOSOMAL PROTEIN	L PROTEIN
4007		18000 733304	g, w, ×	L12 [H.sapiens], ribosomal protein L12	
2	•			EST, Weakly similar to RL7A MOUSE 60S RIBOSOMAL PROTEIN L7A	7A
7407		19244 X15013	1, g, w, x	[M.musculus], RIKEN cDNA 4632404N19 gene, ribosomal protein L7a	
				EST, Weakly similar to RS11_HUMAN 40S ribosomal protein S11 [R.norvegicus],	norvegicus],
0000		0.2220		Homo sapiens mRNA; cDNA DKFZp434A0326 (from clone DKFZp434A0326),	4A0326),
2477		108/8 NIM 031110	g, ), K	RAD21 homolog (S. pombe), ribosomal protein S11	
				EST, Weakly similar to S21055 translation elongation factor eEF-1 alpha chain - rat	oha chain - rat
				[R.norvegicus], ESTs, Highly similar to EFHU1 translation elongation factor eEF-1	factor eEF-1
				alpha-1 chain [H.sapiens], ESTs, Weakly similar to S21055 translation elongation	n elongation
				factor eEF-1 alpha chain - rat [R.norvegicus], G1 to S phase transition 1, G1 to	1, G1 to
Č		0000	:	phase transition 1, G1 to phase transition 2, eukaryotic translation elongation factor	ngation factor
7967	-	24419 NM_033539	E, KK	1 alpha 1	·
				EST, Weakly similar to S26650 DNA-binding protein 5 [H.sapiens], ESTs, Weakly	Ts, Weakly
1100		42E72 A10077E3		sımılar to S26650 DNA-binding protein 5 [H.sapiens], hypothetical protein	ein
7741		2011271	55	d3465N24.2.1, protamine 1	
				EST, Weakly similar to S37583 RING finger protein rfp - mouse [M.musculus], RIKEN cDNA 1810012B10 gene. expressed sequence AW538890 hymothetical	sculus],
1099		16596 AI102486	ee, ff, kk	gene MGC/127	

HABLE	7		4. **	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
SEO		GenBank Acc.		Control Control Control	Atty. Ref. 44921-5090-01-WO/2105485
<u>Q</u> :	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1253		16599  	99 ∰ <del></del> . <del></del>	EST, Weakly similar RIKEN cDNA 18100	EST, Weakly similar to S37583 RING finger protein rfp - mouse [M.musculus], RIKEN cDNA 1810012B10 gene, expressed sequence AW538890, hypothetical
				EST, Weakly similar	gene MGC 112/ EST, Weakly similar to S46992 protein p130 - rat IR.norvegicus], ESTs. Weakly
				similar to A59300 my	similar to A59300 myosin-If - mouse [M.musculus], ESTs, Weakly similar to CASL
				MOUSE ENHANCER	MOUSE ENHANCER OF FILMENTATION 1 [M.musculus], RIKEN CDNA
	•			405/405FUG gene, T	493 I4U3FU3 gene, RIKEN CUNA 9130023P14 gene, RIKEN cDNA C330006B10
433		21652 AA893267	n, v	factor 13, proline-seri	garia, errialyoriai ryti-associateu substrate, myösin tr, peroxisomal biogenesis factor 13, proline-serine-threonine phosphatase interacting protein 1
1213		11550 41169591		EST, Weakly similar	EST, Weakly similar to S57447 HPBRII-7 protein [H.sapiens], cleavage and
2		1000011		polyadenylation spec	polyadenylation specific factor 6, 68kD subunit, hypothetical protein FLJ12529
				EST, Weakly similar t	EST, Weakly similar to S71929 cytochrome-c oxidase (EC 1.9.3.1) chain VIII
1100	11053	11953 41102505	4	precursor, hepatic - m	precursor, hepatic - mouse [M.musculus], cytochrome c oxidase, subunit VIIIa,
		2000		heme-regulated initial	heme-regulated initiation factor 2-alpha kinase
				EST, Weakly similar t	EST, Weakly similar to S71929 cytochrome-c oxidase (EC 1.9.3.1) chain VIII
1100	11954	11954 41102505	4	precursor, hepatic - m	precursor, hepatic - mouse [M.musculus], cytochrome c oxidase, subunit VIIIa,
3	200	10000		heme-regulated initial	heme-regulated initiation factor 2-alpha kinase
				EST, Weakly similar t	EST, Weakly similar to S71929 cytochrome-c oxidase (EC 1.9.3.1) chain VIII
1703	11955 148209	48209	4	precursor, hepatic - m	precursor, hepatic - mouse [M.musculus], cytochrome c oxidase, subunit VIIIa,
		2070		neme-regulated initiat	neme-regulated initiation factor 2-alpha kinase
				ESI, Weakly similar t	EST, Weakly similar to secreted cyclophilin-like protein [H.sapiens], ESTs, Weakly
				Similar to cyclophilin	similar to cyclophilin B [Rattus norvegicus] [R.norvegicus], RIKEN cDNA
				3732410E19 gene, pe	3732410E19 gene, peptidylprolyl isomerase (cyclophilin)-like 1, peptidylprolyl
24.95	7000	SCHOOL MIN COOL	-	isomerase B, peptidyl	isomerase B, peptidylprolyl isomerase B (cyclophilin B), peptidylprolyl isomerase C.
2017	/800	NIVI_UZZ330	- 'u'	peptidylprolyl isomerase C (cyclophilin C)	se C (cyclophilin C)
•				EST, Weakly similar to	EST, Weakly similar to secreted cyclophilin-like protein [H.sapiens], ESTs, Weakly
				similar to cyclophilin E	similar to cyclophilin B [Rattus norvegicus] [R.norvegicus], RIKEN cDNA
				3732410E19 gene, pe	3732410E19 gene, peptidylprolyl isomerase (cyclophilin)-like 1, peptidylprolyl
2125	0000	SCSCCO MINISTER		isomerase B, peptidyl	isomerase B, peptidylprolyl isomerase B (cyclophilin B), peptidylprolyl isomerase C,
2017	locoo	UNI 022330		peptidylprolyl isomerase C (cyclophilin C)	se C (cyclophilin C)

TABLE:	3	3	一般のない 一般のない 一般のない 一般のない 一般のない	Atty. Ref. 44921-5090-01-WO/2105485
G	GenBank Acc.	86.		
۵	GLĞĞ ID No.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
		_		EST, Weakly similar to SYFB_MOUSE PHENYLALANYL-TRNA SYNTHETASE
				BETA CHAIN (PHENYLALANINETRNA LIGASE BETA CHAIN) (PHERS)
				[M.musculus], Homo sapiens cDNA FLJ30727 fis, clone FEBRA2000007, highly
		-		similar to Homo sapiens putative phenylalanyl-fRNA synthetase beta-subunit
	<u>-</u> -			mRNA, KIAA1185 protein, RIKEN cDNA 2900010D03 gene, expressed sequence
				C76708, phenylalanine-tRNA synthetase-like, phenylalanyl-tRNA synthetase beta-
1376	6502 A1178283	<b>.</b>		subunit
				EST, Weakly similar to T00051 hypothetical protein KIAA0404 [H.sapiens], Homo
		-		sapiens, clone IMAGE:4657824, mRNA, KIAA0404 protein, hypothetical protein
738	2526 AA998979	u, v		FLJ10242
				EST, Weakly similar to T00357 hypothetical protein KIAA0685 [H.sapiens], Homo
				sapiens mRNA for KIAA1558 protein, partial cds, KIAA0685 gene product,
861	23025 AI012621	 X		KIAA1115 protein, chromosome 11 open reading frame 23
-				EST, Weakly similar to T00637 hypothetical protein H_GS541B18.1 [H.sapiens],
832	24022 AI011474	a, ee, ff, II		golgi phosphoprotein 2
				EST, Weakly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens],
				ESTs, Highly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens],
				PAI-1 mRNA-binding protein, RIKEN cDNA 1200009K13 gene, intracellular
436	22355 AA893338	b, u, v		hyaluronan-binding protein
				EST, Weakly similar to T12482 hypothetical protein DKFZp564P0662.1 [H.sapiens],
				ESTs, Weakly similar to T12482 hypothetical protein DKFZp564P0662.1
				[H.sapiens], Homo sapiens cDNA FLJ32000 fis, clone NT2RP7009370, weakly
				similar to PUTATIVE SERINE/THREONINE-PROTEIN KINASE PKWA (EC 2.7.1),
896	7992 AI044845	cc, dd, gg		echinoderm microtubule associated protein like 2
				EST, Weakly similar to T13963 formin related protein, lymphocyte specific - mouse
				[M.musculus], ESTs, Highly similar to T13963 formin related protein, lymphocyte
				specific - mouse [M.musculus], ESTs, Moderately similar to T13963 formin related
	<del></del>			protein, lymphocyte specific - mouse [M.musculus], Homo sapiens mRNA; cDNA
				DKFZp762B245 (from clone DKFZp762B245); partial cds, formin homology 2
1373	6059 A1178245	o		domain containing 1, formin-like

TABLE 3	3			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	- 古典書集中 Afry Ref 44921-5090-01-WO/2105485
SEQ		GenBank Acc.	:		
<u>o</u> :	GLGC ID No.	No.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					EST, Weakly similar to 14263/ hypotnetical protein 162K - mouse [M.musculus],
					ESTs, Highly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular
			_		myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A)
					[R.norvegicus], ESTs, Weakly similar to MYH9_RAT Myosin heavy chain,
					nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy
					chain-A) (NMMHC-A) [R.norvegicus], Mus musculus, clone MGC:7530
					IMAGE:3492114, mRNA, complete cds, Myosin, heavy polypeptide 9, non-muscle,
					RIKEN cDNA 3110050K21 gene, eukaryotic translation initiation factor 3, myosin
					heavy chain IX, myosin, heavy polypeptide 9, non-muscle, nasopharyngeal
82		2882 AA799423	=		epithelium specific protein 1
	<del></del> -				ES1, Weakly Similiar to 14263/ hypothetical protein 162K - mouse [M.musculus],
					ESTs, Highly similar to MYH9_RAT Myosin heavy chain, nonmuscle type A (Cellular
					myosin heavy chain, type A) (Nonmuscle myosin heavy chain-A) (NMMHC-A)
					[R.norvegicus], ESTs, Weakly similar to MYH9_RAT Myosin heavy chain,
					nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle myosin heavy
					chain-A) (NMMHC-A) [R.norvegicus], Mus musculus, clone MGC:7530
					IMAGE:3492114, mRNA, complete cds, Myosin, heavy polypeptide 9, non-muscle,
					RIKEN cDNA 3110050K21 gene, eukaryotic translation initiation factor 3, myosin
					heavy chain IX, myosin, heavy polypeptide 9, non-muscle, nasopharyngeal
751	2881/	2881 AF056034	v , u , b		epithelium specific protein 1
					EST, Weakly similar to T42735 TBP-interacting protein TIP120 - rat [R.norvegicus],
					Homo sapiens cDNA FLJ14877 fis, clone PLACE1003044, TBP-interacting protein,
2468		16566 NM_054004	hh		expressed sequence A1195005
					EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus],
			w, x, aa, bb,		tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7,
1686	17159 J00797	762001	lh, II		tubulin, alpha, ubiquitous
					EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus],
					tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7,
2105		17158 NM_022298	f, s, t		tubulin, alpha, ubiquitous
					EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus],
					tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7,
2105	1	17160 NM_022298	[b, l, m, aa		lubulin, alpha, ubiquitous

TABLE 3	3			Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	SECTION NOT FOUND THE SECTION OF SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTI
SEO		GenBank Acc.		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
۵	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Titte
2105		17161 NM_022298	a, z, kk		EST, Weakly similar to TBA1 MOUSE TUBULIN ALPHA-1 CHAIN [M.musculus], tubulin, alpha 1, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha 6, tubulin, alpha 7, tubulin, alpha, ubiquitous
265		13974,AA860030	≡ 'x 'x '0 'u		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta. 2, tubulin, beta. 5
1444		13977 A1229707	<b>L</b>		EST, Weakly similar to TBB5 MOUSE TUBULIN BETA-5 CHAIN [M.musculus], RIKEN cDNA 2310061K05 gene, RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 5, tubulin, beta polypeptide, tubulin, beta, 2, tubulin, beta, 5
1046		9604 AI071230	ee, ff, gg		EST, Weakly similar to TESTIN 2 [M.musculus], Homo sapiens cDNA FLJ31627 fis, clone NT2RI2003338. Homo sapiens cDNA FI J31929 fis clone NT2RI2003338.
2266	1527310	15273/NM 031237	ce CO		EST, Weakly similar to UBSC_HUMAN Ubiquitin-conjugating enzyme E2-17 kDa 3 (Ubiquitin-protein ligase) (Ubiquitin carrier protein) (E2(17)KB 3) [R.norvegicus], ESTs, Weakly similar to S53358 ubiquitin-conjugating enzyme E2.17kB - rat [R.norvegicus], Homo sapiens EST from clone 37208, full insert, RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028117 gene, prefoldin 5, ubiquitin-
2266	15277	15277 NM_031237	, a		EST, Weakly similar to UB5C_HUMAN Ubiquitin-conjugating enzyme E2-17 kDa 3 (Ubiquitin-protein ligase) (Ubiquitin-conjugating enzyme E2-17 kDa 3 (Ubiquitin-protein ligase) (Ubiquitin carrier protein) (E2(17)KB 3) [R.norvegicus], ESTs, Weakly similar to S53568 ubiquitin-conjugating enzyme E2.17kB - rat [R.norvegicus], Homo sapiens EST from clone 37208, full insert, RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028117 gene, prefoldin 5, ubiquitin-conjugating enzyme F2D 3 (LIRCA/5 homology veast)
1292	17679	17679 A1175025	바		EST, Weakly similar to WS3_HUMAN WS-3 PROTEIN [H.sapiens], novel RGD-containing protein
				•	EST, Weakly similar to ZF37_RAT Zinc finger protein 37 (Zfp-37) [R.norvegicus], ESTs, Weakly similar to ZF29 MOUSE ZINC FINGER PROTEIN 29 [M.musculus], ESTs, Weakly similar to ZF93_MOUSE ZINC FINGER PROTEIN 93 (ZFP-93) [M.misculus] expressed sequence AW557864, zinc finger protein 20, zinc finger.
1174	15969	15969 AI137302	cc, dd		protein 37, zinc finger protein 37 homolog (mouse)

GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   Model Code   Humian Homologous Known Gene Name   1285   NM_031097   j. k, r     j. w, x, kk     15303   AA799518   w, x	TABLE 3		(%)	4 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
6LGC ID No. Model Code Human Homologous Known Gene Name 1295 NM_031097 i, k, r 18507 Al175551 h, l, w, x, kk 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053585 s, t	SEO	9	enBank Acc.			AWARTEL 449Z I-309U-UI-WC/ZIO3483
1295 NM_031097 j, k, r 18507 Al175551 h, l, w, x, kk 5283 NM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053585 s, t		LGC ID N	0.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1295 NM_031097 j, k, r 18507 A175551 h, i, w, x, kk 5283 NM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053695 s, t						ESTs, Highly similar to aminopeptidase B [Rattus norvegicus] [R.norvegicus], Mus
1295 NIM_031097 j, k, r 18507 Al175551 h, l, w, x, kk 5283 NIM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NIM_053585 s, t	_					musculus, Similar to aminopeptidase B, clone MGC:29229 IMAGE:5041005,
18507 A1175551 h, l, w, x, kk 5283 NM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053685 s, t	2034	1004	700760 M	2		mRNA, complete cds, RIKEN cDNA 2010111101 gene, expressed sequence
18507 A117551 h, l, w, x, kk 5283 NM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053585 s, t	+C77	N CS7	WI_US1097	, K,		AI894167, hypothetical protein FLJ14675, leukotriene A4 hydrolase
18507 A175551 h, l, w, x, kk 5283 NM_138535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053585 s, t				_		ESTs, Highly similar to eukaryotic translation elongation factor 1 beta 2; eukaryotic
15303 AA799518 w, x 15303 AA799539 c 21170 NM_053565 s, t	1302	10507	47004	-		translation elongation factor 1 beta 1 [Homo sapiens] [H.sapiens], eukaryotic
15303 AA799535 gg 17599 AA799539 c 21170 NM_053585 s, t	7000	/000 //	1,000/11	n, I, W, X, KK		translation elongation factor 1 beta 2
5283 NM_136535 gg 15303 AA799518 w, x 17599 AA799539 c 21170 NM_053585 s, t						ESTs, Highly similar to Glutamate receptor interacting protein [Rattus norvegicus]
15303 AA799518 w, x  17599 AA799539 c  21170 NM_053585 s, t						[R.norvegicus], Glutamate receptor interacting protein, RIKEN cDNA 4931400F03
15303 AA799518 w, x  17599 AA799539 c  21170 NM_053585 s, t	07.0	- 000	100			gene, channel-interacting PDZ domain protein, multiple PDZ domain protein,
15303 AA799518 w, x  17599 AA799539 c  21170 NM_053585 s, t	2407	N 5220	M_138535	99		syntrophin, alpha 1 (dystrophin-associated protein A1, 59kD, acidic component)
17599 AA799539 c 21170 NM_053585 s, t	- 6	2000	071000			ESTs, Highly similar to hypothetical protein FLJ13725; KIAA1930 protein [Homo
17599 AA799539 c 21170 NM_053585 s, t	8	13303 A	4/99518	w, x		sapiens] [H.sapiens]
17599 AA799539 c 21170 NM_053585 s, t						ESTs, Highly similar to lymphocyte activation-associated protein [Homo sapiens]
17599 AA799539 c 21170 NM_053585 s, t						[H.sapiens], ESTs, Weakly similar to KEAP_RAT Kelch-like ECH-associated protein
21170 NM_053585 s, t	<del></del>					1 (Cytosolic inhibitor of Nrf2) (INrf2) [R.norvegicus], Kelch-like ECH-associated
21170 NM_053585 s, t	•					protein 1, Mus musculus, Similar to KIAA0952 protein, clone MGC:25591
21170 NM_053585 s, t	ç	7700	0000			IMAGE:4011475, mRNA, complete cds, RIKEN cDNA 2700038B03 gene, kelch-like
21170 NM_053585 s, t	3	1/38a	1/38038	O		ECH-associated protein 1
21170 NM_053585 s, t						ESTs, Highly similar to MAP-kinase activating death domain; Rab3 GDP/GTP
21170 NM_053585 s, t	-					exchange protein [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to MAP-
21170 NM_053585 s, t	-					kinase activating death domain; Rab3 GDP/GTP exchange protein [Rattus
21170 NM_053585 s, t 11794 NM 053606 ii						norvegious] [R.norvegicus], MAP-kinase activating death domain, Mus musculus,
21170 NM_053585 s, t 11794 NM_053606 ii						Similar to MAP-kinase activating death domain, clone MGC:7838 IMAGE:3500720,
21170 NM_U53585 s, t 11794 NM 053606 ii			4			mRNA, complete cds, RIKEN cDNA 2010004M01 gene, suppression of
11794 NM 053606 ii	2402	NN D/LLZ	/_U53585	S, t		tumorigenicity 5
11794 NM 053606 III						ESTs, Highly similar to Matrix metalloproteinase 23 [Rattus norvegious]
17.84FIN 003000	0	70777	00000	:		[R.norvegicus], matrix metalloproteinase 23, matrix metalloproteinase 23A, matrix
	7408	11/84 NN	4_053606	=		metalloproteinase 23B

TABLE 3	3	,		The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	Athy Ref A4021-5000-14002 Athy Ref A4021-5000-01-1MO/240548
SEO		GenBank Acc.			, C. (1)
<u> </u>	GLGC ID No.	No.	Model Code Human F	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to microtubule-associated protein 1a [Rattus norvegicus] [R.norvegicus]. ESTs. Moderately similar to microtubule-associated protein 1a
					[Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to microtubule-associated
					protein 1a [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to
					MAPA_MOUSE Microtubule-associated protein 1A (MAP 1A) [M.musculus],
					chromatin assembly factor 1, subunit A (p150), expressed sequence AI853608,
2211		1991 NM_030995	h, I		microtubule-associated protein 1A
					ESTs, Highly similar to multiple PDZ domain protein [Mus musculus] [M.musculus],
					Homo sapiens cDNA FLJ25282 fis, clone STM06685, highly similar to Rattus
					norvegicus mRNA for multi PDZ domain protein, ligand of numb-protein X 1,
1158		14434 AI112291	=		multiple PDZ domain protein
					ESTs, Highly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus],
					ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus],
					nuclear factor (erythroid-derived 2)-like 2, nuclear factor, erythroid derived 2, like 3,
2328		1169 NM_031789	q		nuclear, factor, erythroid derived 2, like 2
					ESTs, Highly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus],
					ESTs, Weakly similar to NF-E2-related factor 2 [Rattus norvegicus] [R.norvegicus],
					nuclear factor (erythroid-derived 2)-like 2, nuclear factor, erythroid derived 2, like 3,
2328		1170 NM_031789	d, I, m, jj, kk		nuclear, factor, erythroid derived 2, like 2
-		000			Les Is, Highly similar to protein translocation complex beta; protein transport protein
3		16215 AA8/4999	n, I, n, o		SEC61 beta subunit [Homo sapiens] [H.sapiens], protein translocation complex beta
					ESTs, Highly similar to proteoglycan 3 (megakaryocyte stimulating factor, articular
					superficial zone protein) [Mus musculus] [M.musculus], proteoglycan 4
					(megakaryocyte stimulating factor, articular superficial zone protein), proteoglycan
			,		4, (megakaryocyte stimulating factor, articular superficial zone protein,
1162		4969 AI113008	ll, k, n, o		camptodactyly, arthropathy, coxa vara, pericarditis syndrome), vitronectin

TABL	3		The second		
SEO		GenBank Acc.			Atty, Ref. 44921-5090-01-WO/2105485
൧	GLGC ID No.	No.	Model Code Human	Tuman Homologous Known Gene Name Human Homologous Sequence Cluster Title	Title
				ESTs, Highly similar to ribosomal protein L4 ribosomal protein L4 ribosomal protein L4 ribosomal protein L4 ribosomal protein L36a [Homo sapiens]	ESTs, Highly similar to ribosomal protein L36a; 60S ribosomal protein L44; L44-like ribosomal protein; ribosomal protein L44; ribosomal protein L36a homologue; 60S ribosomal protein L36a (Homo sapiens) [H.sapiens], ESTs, Moderately similar to
				ribosomal protein L36a; 60S ribosomal ribosomal ribosomal ribosomal protein 144: ribosomal protein	ribosomal protein L36a; 60S ribosomal protein L44; L44-like ribosomal protein; ribosomal protein I 44- ribosomal protein I 36a pomologue. 60S ribosomal protein
2240		22205 NM_031105	٩	L36a [Homo sapiens] [H.sapiens], RIKE Intotein I 36a-like rihosomal protein I 44	1230a [Homo sapiens] [H.sapiens], RIKEN cDNA 2410038A03 gene, ribosomal protein annotein I 38a.ilke ribosomal protein I 44
2393		17298 NM_053553	cc, dd	ESTs, Highly similar to synaptogyrin 2 [Rattus norvegicus] [R.norvegicus] musculus 18 days embryo whole body cDNA, RIKEN full-length enriche clone:1110032G03:synaptogyrin 2, full insert sequence, synaptogyrin 2	ESTs, Highly similar to synaptogyrin 2 [Rattus norvegicus] [R.norvegicus], Mus musculus 18 days embryo whole body cDNA, RIKEN full-length enriched library, clone:1110032G03:synaptogyrin 2, full insert sequence, synaptogyrin 2
				ESTs, Highly similar to TLS-associated serine-arginine protein 1, isoforn associated serine-arginine protein 1, isoforn associated serine-arginine protein 1; TLS-associated protein TASR [Hon [H.sapiens], ESTs, Weakly similar to splicing factor, arginine/serine-rich	ESTs, Highly similar to TLS-associated serine-arginine protein 1, isoform 1; TLS-associated serine-arginine protein 1; TLS-associated protein TASR [Homo sapiens] [H.sapiens], ESTs, Weakly similar to splicing factor, arginine/serine-rich
2479	1	23307 NM_057119	Φ.	(transformer 2 Drosophila homolog) 10 [Rattus norvegicus] [R.norvegicus], Mu musculus hexaribonucleotide binding protein 3 (Hrnbp3) mRNA, partial cds, RI cDNA 1500010G04 gene, neural-salient serine/arginine-rich, silica-induced general-salient serine/arginine-rich, silica-induced general-salient serine-rich, solica-induced general-salient 10 (transformer 2 homology Drosophila)	(transformer 2 Drosophila homolog) 10 [Rattus norvegicus] [R.norvegicus], Mus musculus hexaribonucleotide binding protein 3 (Hrnbp3) mRNA, partial cds, RIKEN cDNA 1500010G04 gene, neural-salient serine/arginine-rich, silica-induced gene 41, splicing factor, arginine/serine-rich 10 (transformer 2 homology Drosophila)
				ESTs, Highly similar to TLS-associated associated associated associated serine-arginine protein 1; TL	ESTs, Highly similar to TLS-associated serine-arginine protein 1, isoform 1; TLS-associated serine-arginine protein 1; TLS-associated protein TASR [Homo sapiens]
	-			[H.sapiens], ESTs, Weakly similar to splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 [Rattus norvegicus] [R.norvegicus] musculus hexaribonine bindino protein 3 (Hrnbn3) mRNA partial of	[H.sapiens], ESTs, Weakly similar to splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10 [Rattus norvegicus] [R.norvegicus], Mus musculus hexaribonicleotide binding protein 3 (Hrnbn3) mRNA partial and puren
2479	l	23310 NM_057119	e, s, t	cDNA 1500010G04 gene, neural-salient serine/arginine-rich, silica-induced general-salient serine/arginine-rich, silica-induced general-salient 41, splicing factor, arginine/serine-rich 10 (transformer 2 homology Droscopkila)	cDNA 1500010G04 gene, neural-salient serine/arginine-rich, silica-induced gene 41, splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Droscopilo)
1641	20082	20082 A1639488	Q	ESTS, Highly similar to 1814460A p53-associated protein [H.sapiens], Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse), transform mouse 3T3 cell double minute 2	ESTs, Highly similar to 1814460A p53-associated protein [H.sapiens], Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse), transformed mouse 3T3 cell double minute 2
377	17350 4	17350 AA892240	j, m, ii	ESTs, Highly similar to 2008109A set gene [Rattus norvegicus] [R.norvegicus], ESTs, Highly similar to SET_HUMAN SET PROTEIN [H.sapiens], SET translocation, SET translocation (myeloid leukemia-associated)	ne [Rattus norvegicus] [R.norvegicus], T. PROTEIN [H.sapiens], SET

TABLE 3	E3	10000	Sept.	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
SEO		GenBank Acc.			Atty. Ref. 44921-5090-01-WO/2105485
ੂ	GLGC ID	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to 40S RIBOSOMAL PROTEIN S23 [H.sapiens], Mus
					musculus, Similar to mitochondrial ribosomal protein S12, clone MGC:13892
1529		23296 AI233316	ЧЧ		IMAGE:4209358, mRNA, complete cds, mitochondrial ribosomal protein S12, Iribosomal protein S23
					ESTs, Highly similar to A37100 myosin regulatory light chain A. smooth muscle - rat
					[R.norvegicus], RIKEN cDNA 2900073G15 gene, myosin light chain,
2006		20848 NIM 047242	4 4 1		phosphorylatable, cardiac ventricles, myosin regulatory light chain, myosin, light
7007		14(V) 017 343	00, nn, JJ, KK		polypeptide, regulatory, non-sarcomeric (20kD)
					ESTs, Highly similar to A37100 myosin regulatory light chain A, smooth muscle - rat
					[R.norvegicus], RIKEN cDNA 2900073G15 gene, myosin light chain,
2008		20840 MIM 047242			phosphorylatable, cardiac ventricles, myosin regulatory light chain, myosin, light
307		Nivi 01/343	99		polypeptide, regulatory, non-sarcomeric (20kD)
					ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory
175	·	16071 0 0 9 10 60 1			chain [H.sapiens], RIKEN cDNA 2410004D02 gene, protein phosphatase 2
	1	A013031	0 '1		(formerly 2A), regulatory subunit B (PR 52), alpha isoform
					ESTs, Highly similar to A38351 phosphoprotein phosphatase 2-alpha regulatory
2466	-	16062 NIM DE2000	:		chain [H.sapiens], RIKEN cDNA 2410004D02 gene, protein phosphatase 2
2100	-	SESCO MINI	۵, ۷		(formerly 2A), regulatory subunit B (PR 52), alpha isoform
					ESTs, Highly similar to A45445 janusin precursor, long form - rat [R.norvegicus],
					ESTs, Weakly similar to JQ1322 tenascin precursor - mouse [M.musculus],
2474	•	17709 NM 057101	>		Tenascin-R (Restrictin, janusin, J1-160/180), tenascin R (restrictin, janusin),
	}		5		Tenascin XB
					ESTs, Highly similar to A54602 microtubule-associated serine/threonine protein
					kinase MAST205 - mouse [M.musculus], ESTs, Moderately similar to A54602
					microtubule-associated serine/threonine protein kinase MAST205 - mouse
					[M.musculus], Homo sapiens cDNA: FLJ21699 fis, clone COL09829, KIAA0303
					protein, KIAA0561 protein, KIAA0807 protein, Mus musculus adult male cecum
					CDNA, RIKEN full-length enriched library, clone:9130026D18:syntrophin associated
267	15884	15884 AA866776			serine/threonine kinase, full insert sequence, microtubule associated testis specific
	110001		1, 2, 1, 1		Serine/threonine protein kinase, syntrophin associated serine/threonine kinase

TABLE 3	3	はい いいつい		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	MODALE MAN Def A4004-5000-01 MODALE
SEO		GenBank Acc.		A manufacture of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	THE PARTY AND THE
Ω	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
				ESTs, Highly sin	ESTs, Highly similar to A56011 transcription factor IIIC alpha chain - rat Renovedicus) ESTs Moderately similar to A56011 transcription factor IIIC alpha
				chain - rat [R.nor	chain - rat [R.norvegicus], ESTs, Weakly similar to A56011 transcription factor IIIC
				alpha chain - rat	alpha chain - rat [R.norvegicus], general transcription factor III C 1, general
2525		1791 NM_133541	=	transcription fact	transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD)
				ESIS, Highly SIII	niar to A59252 myosin heavy chain, nonmuscle, form IIB
				[H.saplens], EST	[H.saplens], ESTs, Weakly similar to neuronal thread protein [Homo sapiens]
				[H.sapiens], EST	[H.sapiens], ESTs, Weakly similar to LORICRIN [M.musculus], Homo sapiens
	-			mRNA; cDNA DF	mRNA; cDNA DKFZp434G227 (from clone DKFZp434G227), Homo sapiens, clone
	-			IMAGE:4111094	IMAGE:411094, mRNA, partial cds, KIAA0638 protein, Mus musculus, Similar to
				hypothetical prot	hypothetical protein MGC2705, clone MGC:36471 IMAGE:5359433, mRNA,
				complete cds, Mt	complete cds, Mus musculus, clone MGC:32394 IMAGE:5037534, mRNA, complete
			:	cds, expressed s	cds, expressed sequence Al036317, expressed sequence AV253284, expressed
2542	-	1530 NM_134397	a, e, jj, kk	sequence C77080, loricrin	30, Ioricrin
				ESTS, Highly sim	ESTS, Highly similar to ANK1 MOUSE ANKY KIN 1 [M.musculus], ESTS, Weakly
				similar to ANK1 N	similar to ANK1 MOUSE ANKYRIN 1 [M.musculus], GASZ, Gasz, Homo sapiens
_				cDNA FLJ25053	cDNA FLJ25053 fis, clone CBL04266, Mus musculus ankyrin repeat domain-
				containing SOCS	containing SOCS box protein Asb-16 mRNA, complete cds, Mus musculus, Similar
				to hypothetical pr	to hypothetical protein DKFZp564O043, clone MGC:36949 IMAGE:4946879,
				mRNA, complete	mRNA, complete cds, RIKEN cDNA 1110058D09 gene, RIKEN cDNA 4933400N19
				gene, hypothetics	gene, hypothetical protein similar to ankyrin repeat-containing priotein AKR1, likely
•				homolog of rat kir	homolog of rat kinase D-interacting substance of 220 kDa, regulatory factor X-
2431	11606	11606 NM_053795	99	associated ankyr	associated ankyrin-containing protein
				ESTs, Highly sim	ESTs, Highly similar to B Chain B, Peptide-In-Groove Interactions Link Target
				Proteins To The I	Proteins To The B-Propeller Of Clathrin [R.norvegicus], RIKEN cDNA 1700034F02
-				gene, clathrin, he	gene, clathrin, heavy polypeptide (Hc), clathrin, heavy polypeptide-like 1, expressed
/92/		17507 NM_019299	ť, g	sequence R74732	
		007.77013	-	ESTs, Highly sim	ESTs, Highly similar to C259_HUMAN PROTEIN C21ORF59 [H.sapiens],
83		13/8/ AIU11462	g, ad	chromosome 21 (	chromosome 21 open reading frame 59

TABLE	က				
SEO		GenBank Acc.			Arry: Ref. 44921-5090-01-WO/2105485
۵	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2627		20386 U88562	pp '23	ESTs, Highly similar MITOCHONDRIAL F MOUSE 60 KDA HE [M.musculus], ESTs, PROTEIN, MITOCH	ESTS, Highly similar to CH60_HUMAN 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [H.sapiens], ESTS, Moderately similar to CH60 MOUSE 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [M.musculus], ESTS, Weakly similar to CH60_HUMAN 60 KDA HEAT SHOCK PROTEIN, MITOCHONDRIAL PRECURSOR [H.sapiens], heat shock 60kD protein 1 (chaperonin), heat shock protein, 60 kDa
	·			ESTS, Highly similar CIAO 1 [H.sapiens], acetylhydrolase IB alk ND subunit) (PAF-A. R. DONNERIS) (R. NONNERIS)	ESTs, Highly similar to CIA1_HUMAN WD40-REPEAT CONTAINING PROTEIN CIAO 1 [H.sapiens], ESTs, Weakly similar to LIS1_MOUSE Platelet-activating factor acetylhydrolase IB alpha subunit (PAF acetylhydrolase 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH 45 kDa subunit) (PAF-AH alpha) (PAF-AH alpha) (Lissencephaly-1 protein) (LIS-1) R norventris   F-hox and MD-40 domain protein 7 (pophical phomology)
				Drosophila), Homo s. sapiens, clone MGC: box-WD40 repeat pro RIKEN cDNA 150004	Drosophila), Homo sapiens cDNA FLJ31861 fis, clone NT2RP7001319, Homo sapiens cDNA FLJ31861 fis, clone NT2RP7001319, Homo sapiens clone MGC:4710 IMAGE:3534806, mRNA, complete cds, Mus musculus F-box-WD40 repeat protein 6 (Fbxw6) mRNA, complete cds, Mus musculus, Similar to RIKEN cDNA 1500041N16 gene. clone MGC:12066 IMAGE:3708188, mRNA
644	12426	12426 AA955760	> :	complete cds, nuclea activating factor acety factor acetylhydrolass	complete cds, nuclear receptor co-repressor/HDAC3 complex subunit, platelet-activating factor acetylhydrolase beta subunit (PAF-AH beta), platelet-activating factor acetylhydrolase, isoform 1b, beta1 subunit, platelet-activating factor
				Account of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro	acegon you detail it, appraisablem (49/L), transducin (beta)-like 1 ES 15, Highly similar to DUK1 helix-destabilizing protein - rarifk.norvegicusj, ES 15, Highly similar to ROA3_HUMAN HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A3 [H.sapiens], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle
				protein A1 [H.sapiens particle protein A1 [H.H.sapiens Particle protein A1 [H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.H.	protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA2 MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS A2/B1 [M.musculus],
				Mus musculus, simila clone MGC:37309 IM 2610510D13 gene, R	Mus musculus, similar to heterogeneous nuclear ribonucleoprotein A3 (H. sapiens), clone MGC:37309 IMAGE:4975085, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 3010025E17 gene, heterogeneous nuclear
1359	17570 A	17570 A1177683	n, o, hh	ribonucleoprotein A1, heterogeneous nucle:	ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A2/B1, heterogeneous nuclear ribonucleoprotein A3, hypothetical protein 23851

TABLE 3				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
SEO		enBank Acc			Aily (AB) 44921-3890-01-WU(Z103483
≘	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
·					ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar
37		17819, <u>AA799511</u>			to KOA2 MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS A2/B1 [M.musculus], Mus musculus, similar to heterogeneous nuclear ribonucleoprotein A3 (H. sapiens), clone MGC:37309 IMAGE:4975085, mRNA, complete cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 3010025E17 gene, heterogeneous nuclear
					ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.norvegicus], ESTs,
					Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar
					to heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to ROA2 MOUSE HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS A2/B1
					[M.musculus], Mus musculus, similar to heterogeneous nuclear ribonucleoprotein A3 (H. sapiens), clone MGC:37309 IMAGE:4975085, mRNA, complete cds. RIKEN
181		17614 AA848306	۵		cDNA 2610510D13 gene, RIKEN cDNA 3010025E17 gene, heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear ribonucleoprotein A2/R1
					ESTs, Highly similar to DDRT helix-destabilizing protein - rat [R.nonvegicus], ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to
					heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Moderately similar to S38384 SEB4 protein - mouse IM musculus]. ESTs. Moderately similar to
					heterogeneous ribonuclear particle protein A1 [H.sapiens], ESTs, Weakly similar to
192		2075 AA849394	n, v		S38384 SEB4 protein - mouse [M.musculus], heterogeneous nuclear ribonucleoprotein A1. seb4-like (Xenopus laevis)
1062	l	5740 AI072092	l, m		ESTs, Highly similar to DYNC_HUMAN DYNACTIN, 50 KD ISOFORM [H.sapiens], dynactin 2 (p50)
					ESTs, Highly similar to EF2_RAT Elongation factor 2 (EF-2) [R.norvegicus], ESTs,
421		16482 AA892940	99		weakly similar to EFZ_MOUSE Elongation tactor 2 (EF-2) [M.musculus], U5 small nuclear ribonucleoprotein 116 kDa, eukarvotic translation elongation factor 2
					4 COST HOMBERON CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTR

TABLE 3	:3		15		AttvilRef. 44921-5090-01-WO/2105485
SEO	Ger Ger	GenBank Acc.	مامر امامهم	Limen County or included and the	
2.	שניטטים	NO.	anoo lanoiki	חמווומו	inuman nomologous sequence cruster inte
					ESTs, Highly similar to ERR3_HUMAN ESTROGEN-RELATED RECEPTOR
		0 4 7 0 0 4 4 9			GAMMA [H.sapiens], estrogen related receptor, alpha, estrogen-related receptor
9	İ	0001 AA/ 99412	2)		aipna, estrogen-related receptor gamma
					ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family
					3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA
808		15644 AI010256	kk		1810027O10 gene
					ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family
					3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA
1167		24212 AI136747	cc, dd		1810027010 gene
					ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family
					3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA
2462	•	15642 NM_053985	q		1810027O10 gene
					ESTs, Highly similar to H33_HUMAN HISTONE H3.3 [H.sapiens], H3 histone, family
					3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B), RIKEN cDNA
2462	_	15645 NM 053985	o,		1810027010 gene
					ESTs, Highly similar to HIPP_HUMAN Neuron specific calcium-binding protein
					hippocalcin (P23K) (Calcium-binding protein BDR-2) [R.norvegicus], ESTs,
					Moderately similar to VIS3 MOUSE VISININ-LIKE PROTEIN 3 [M.musculus], Mus
					musculus, clone MGC:21424 IMAGE:4500919, mRNA, complete cds, expressed
					sequence At848120, guanylate cyclase activator 1A (retina), guanylate cyclase
					activator 1B (retina), guanylate cyclase activator 1C, guanylate cyclase activator 1a
2010		24428 NM_017356	=		(retina), hippocalcin-like 1, hypothetical protein FLJ11767, neurocalcin delta
					ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84)
					[R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein
					DKFZp761K0511.1 [H.sapiens], Mus musculus, clone IMAGE:3584589, mRNA,
					partial cds, expressed sequence C81438, heat shock 90kD protein 1, beta, heat
584		20795 AA944397	e, ee		shock protein, 84 kDa 1, heat shock protein, 86 kDa 1
					ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84)
					[R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein
					DKFZp761K0511.1 [H.sapiens], Mus musculus, cione IMAGE:3584589, mRNA,
		1	d, ee, ff, jj,		partial cds, expressed sequence C81438, heat shock 90kD protein 1, beta, heat
1335	ı	16518 AI176546	茶		shock protein, 84 kDa 1, heat shock protein, 86 kDa 1

TABLE 3	2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the committee of the commit	AHV-PAL-6001-F001-F001-F001-F001-F001-F001-F001
SEO	Ē	GenBank Acc.				er a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya d
Ω	GC ID	No.	Model Code Human	Human Homologous Known Gene Name	Gene Name	Human Homologous Sequence Cluster Title
						ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84)
						[R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein
						DKFZp761K0511.1 [H.sapiens], RIKEN cDNA 1810014B01 gene, expressed
						sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1,
17		25104 AA685903	d, e, r			tumor rejection antigen (gp96) 1, tumor rejection antigen gp96
						ESTs, Highly similar to HS9B_RAT Heat shock protein HSP 90-beta (HSP 84)
					•	[R.norvegicus], ESTs, Highly similar to T46243 hypothetical protein
						DKFZp761K0511.1 [H.sapiens], RIKEN cDNA 1810014B01 gene, expressed
						sequence C81438, heat shock 90kD protein 1, beta, heat shock protein, 84 kDa 1,
2603	Ì	18647 S69316	ď, e			tumor rejection antigen (gp96) 1, tumor rejection antigen gp96
						ESTs, Highly similar to Human Translation Initiation Factor Eif1, Nmr, 29 Structures
						[H.sapiens], putative translation initiation factor, suppressor of initiator codon
1 8 8	-	19093 AI058869	E,			mutations, related sequence 1 (S. cerevisiae)
						ESTs, Highly similar to Human Translation Initiation Factor Eif1, Nmr, 29 Structures
-						[H.sapiens], putative translation initiation factor, suppressor of initiator codon
1504	- 1	19094 AI232021	හ			mutations, related sequence 1 (S. cerevisiae)
			•			Exis, Highly similar to 148/22 zinc finger protein - mouse [M.musculus], ESTs,
					•	Moderately similar to S47073 finger protein HZF2, Krueppel-related [H.sapiens],
						Homo sapiens cDNA FLJ31843 fis, clone NT2RP7000271, moderately similar to
						Mus musculus zinc finger protein 276 C2H2 type (Zfp276) mRNA, Homo sapiens
-						cDNA: FLJ22829 fis, clone KAIA4075, highly similar to HSCH16FAA Homo sapiens
-			:			mRNA for FAA protein, ciliary neurotropic factor, hypothetical protein BC016816,
38/	22868 A	22868 AA892391	ee, ff			hypothetical protein FLJ20531, zinc finger protein 354A, zinc finger protein 354B
						ESTs, Highly similar to 149523 Mouse primary response gene B94 mRNA, 3'end -
-						mouse [M.musculus], RIKEN cDNA 1600013K19 gene, hypothetical protein
1105		22487 Al102578	e			MGC16332, tumor necrosis factor, alpha-induced protein 2

TABLE 3	3		11.5		Atty. Ref: 44921-5090-01-WO/2105485
SEQ ID	ပ္ပ	GenBank Acc. No.	Model Code	틀	i Homologous Sequence Cluster Title
					TOT. Highly and Manual Month big with big side of the second Manual 1977.
					Ests, righty similar to 143030 DINA-binding protein - mouse (M. mosculus), Ests, Highly similar to OZF HUMAN ZINC FINGER PROTEIN OZF I'H sapiens). ESTs.
					Moderately similar to 149636 DNA-binding protein - mouse [M.musculus], ESTs,
					Weakly similar to OZF_HUMAN ZINC FINGER PROTEIN OZF [H.sapiens], ESTs,
					Weakly similar to Z177_HUMAN ZINC FINGER PROTEIN 177 [H.sapiens], Homo
					sapiens mRNA; cDNA DKFZp547C146 (from clone DKFZp547C146), Mus
					musculus, Similar to zinc finger protein 97, clone MGC:6111 IMAGE:3494875,
		-			mRNA, complete cds, Pancreas zinc finger protein, see also D1Bda10\2, zinc finger
1410	19828 AI180087	787	Q.		protein 177, zinc finger protein 260, zinc finger protein 63, zinc finger protein 97
707	8786 AA996993	993	p		ESTs, Highly similar to I58408 IK factor [H.sapiens], IK cytokine
					ESTs, Highly similar to 163168 gene Ube1x protein - rat (fragment) [R.norvegicus],
					ubiquitin-activating enzyme E1 (A1S9T and BN75 temperature sensitivity
					complementing), ubiquitin-activating enzyme E1, Chr X, ubiquitin-activating enzyme
870	16686 AI013160	091	u, v		E1, Chr Y 1, ubiquitin-activating enzyme E1-like
					ESTs, Highly similar to 167428 retinoic acid receptor homolog - rat (fragment)
748	19649 AF016387	387	jj, kk		[R.norvegicus], retinoid X receptor gamma, retinoid X receptor, gamma
					ESTs, Highly simitar to 167428 retinoic acid receptor homolog - rat (fragment)
748	19650 AF016387	387	jj, kk		(R.norvegicus), retinoid X receptor gamma, retinoid X receptor, gamma
					ESTS, Highly similar to IEFS_HUMAN   RANSFORMATION-SENSITIVE PROTEIN
					IEF SSP 3521 [H.sapiens], ESTs, Weakly similar to small glutamine-rich
					tetratricopeptide repeat (TPR) containing protein (SGT) [Rattus norvegicus]
					[R.norvegicus], Mus musculus, clone MGC:27660 IMAGE:4527683, mRNA,
					complete cds, RIKEN cDNA 5330427H01 gene, hypothetical protein FLJ12788,
					small glutamine-rich tetratricopeptide repeat (TPR) containing protein (SGT), small
		-			glutamine-rich tetratricopeptide repeat (TPR)-containing, stress-induced
					phosphoprotein 1, stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing
2563	11840 NM_138911	38911	Φ		protein)
					ESTs, Highly similar to IF4E_HUMAN EUKARYOTIC TRANSLATION INITIATION
					FACTOR 4E [H.sapiens], RIKEN cDNA 1300018P11 gene, RIKEN cDNA
					2700069E09 gene, eukaryotic translation initiation factor 4E, eukaryotic translation
1386	18848 AI178816	316	n, o		initiation factor 4E-like 3

TABLE 3	ന			11年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の		Afty Ref 44921-5090-01-000-01-00-01-01-01-01-01-01-01-01-0
SEO		GenBank Acc.				
	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Name	Human Homologous Sequence Cluster Title
	·					ESTs, Highly similar to IFM3_HUMAN INTERFERON-INDUCED TRANSMEMBRANE PROTEIN 3 [H.sapiens], ESTs, Highly similar to S17182
						interferon-induced protein 1-8U [H.sapiens], RIKEN cDNA 1110004C05 gene, interferon induced transmembrane protein 1 (0.27) interferon induced
1218	21660	21660 AI169751	۾ ج			transmembrane protein 3 (1-8U)
						ESTS, Highly similar to IFM3_HUMAN INTERFERON-INDUCED
						incarvamente Profesion 3 (n. sapiens), ESTS, mgniy similar to ST/182 interferon-induced protein 1-8U (H. sapiens), RIKEN cDNA 1110004C05 gene,
0	5		d, j, k, m, y,			interferon induced transmembrane protein 1 (9-27), interferon induced
C007	Z165/ X61381	X61381	2, KK			transmembrane protein 3 (1-8U)
						ESTs, Highly similar to JC4577 transcription elongation factor T1 [H.saplens], ESTs, Highly similar to Transcriptional Florastion Eactor Sil III senions   ESTs   Wealth
						similar to JC5430 transcription elongation factor S-II-T1, testis-specific - mouse
						[M.musculus], Homo sapiens cDNA: FLJ23371 fis, clone HEP16068, highly similar
						to HSTFIISH Homo sapiens mRNA for transcription elongation factor TFIIS, PHD
1276	2140 /	2140 AI172272	듇			finger protein 3, transcription elongation factor A (SII), 3
						ESTs, Highly similar to JE0190 polyubiquitin unit [H.sapiens], ESTs, Highly similar to IOHII IC polyupiquitin 9 IU engined Home engine.
						control polytaxydami 3 (1.13aprens), norno saprens, similiar to diosominación (1.) Iclone MGC:24263 (MAGE:3934516, mRNA, complete ods. expressed sequience
2560	3015	3015 NM_138895	aa, bb			AL033289, ubiquitin B, ubiquitin C
						ESIS, Highly Similar to LB4D_HUMAN NADP-DEPENDENT LEUKOTRIENE B4 12-
						HYDKUXYDEHYDKOGENASE [H.sapiens], ESTs, Weakly similar to
						LEAD_HOWAN NAUP-DEPENDEN! LEUKO KIENE B4 12-
						INDENOVICE INTO CONTRACT [F.:Septens], HOMO Septens, GIONE INVACE: 4/83/UZ, INSPINATION OF THE MISSIMILIS COME MGC: 32489 IMAGE: 5050433 IMAGE SOME COMPLETE CAST
322	2846	2846 AA875639	o			Crystallin, zeta fatty acid synthase duinone oxidoreduiotase homolog
						ESTS, Highly similar to LCK MOUSE PROTO-ONCOGENE TYROSINE-PROTEIN
						KINASE LCK [M.musculus], RIKEN cDNA 8430404F20 gene, hemopoietic cell
						kinase, lymphocyte protein tyrosine kinase, lymphocyte-specific protein tyrosine
		:				kinase, src-related kinase lacking C-terminal regulatory tyrosine and N-terminal
1830	1258	1258 NM_013185	u.			myristylation sites

10 GLG	GLGC ID No.	c. Model Code Human		
10 GEG	3C ID No.	Model Code		
1014			Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
7014				ESTs, Highly similar to MEM2 RAT MEMBRANE-ASSOCIATED PROTEIN HEM-2 [R.norvegicus], ESTs, Highly similar to NCP1_RAT Nck-associated protein 1 (NAP 1) (p125Nap1) (Membrane-associated protein HEM-2) [R.norvegicus], NCK-
2583	8729 AI059485	w,×		associated protein 1
2583				ES1S, Filgniy similar to MXI1_KA1 MAX interacting protein 1 (MX11 protein) IR.norvegious]. ESTs. Moderately similar to MXI1 RAT MAX interacting protein 1
2583				(MXI1 protein) [R.norvegicus], Homo sapiens cDNA FLJ32472 fis, clone
2583				SKNMC2000356, highly similar to Mus musculus Max-interacting transcriptional
×200				repressor (Mad3) mRNA, MAX interacting protein 1, Max interacting protein 1, likely
2002	305 NM 145//3	n, v		ortholog of mouse Max dimerization protein 3
				ESTs, Highly similar to MXI1_RAT MAX interacting protein 1 (MXI1 protein)
				[13.1101 Vegicue], CO 19, VVeany Silillial to MALL LAA IMERIACIING Protein 1 (MALI
7007	007070 1111			protein) [K.norvegicus], MAX dimenzation protein, MAX interacting protein 1, Max
1884	3465 NM UTSTOU	n, 1		interacting protein 1
		-		muscia bosus abaia tima A. Maamusia masia been heli a A. Allania A. Cellular
				Inyosin neavy chain, type A) (Nonmuscie myosin neavy chain-A) (NiviMHC-A)
		-		In the weglous, Estat anguing similar to intitual woods inyosin neavy chain,
				nonmuscle type B (Cellular myosin heavy chain, type B) (Nonmuscle myosin heavy
				chain-B) (NMMHC-B) [M.musculus], ESTs, Weakly similar to MYH9_RAT Myosin
				heavy chain, nonmuscle type A (Cellular myosin heavy chain, type A) (Nonmuscle
				myosin heavy chain-A) (NMMHC-A) [R.norvegicus], ESTs, Weakly similar to
	<del></del> -			MYHA_MOUSE Myosin heavy chain, nonmuscle type B (Cellular myosin heavy
				chain, type B) (Nonmuscle myosin heavy chain-B) (NMMHC-B) [M.musculus],
				RIKEN cDNA 2400004E04 gene, RIKEN cDNA 5730504C04 gene, TGFB1-induced
				anti-apoptotic factor 1, myosin heavy chain IX, myosin, heavy polypeptide 9, non-
				muscle, protein tyrosine phosphatase, receptor-type, F interacting protein, binding
1892	1970 NM_013194	<u>66</u>		protein 2
				ESTs, Highly similar to NTC1_RAT Neurogenic locus notch homolog protein 1
				precursor (Notch 1) [R.norvegicus], Homo sapiens cDNA FLJ25053 fis, clone
				CBL04266, Notch gene homolog 1, (Drosophila), Notch homolog 1, translocation-
	0000	•		associated (Drosophila), hypothetical protein similar to ankyrin repeat-containing
228	13802 AA858853	р, I, m		priotein AKR1, likely homolog of rat kinase D-interacting substance of 220 kDa

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7EO E	;  -	ConBonk Acc		"是一种是	amen - 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
, 	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	ous Sequence Cluster
					ESTs, Highly similar to P2CB_HUMAN PROTEIN PHOSPHATASE 2C BETA ISOFORM [H.sapiens], ESTs, Weakly similar to P2CB_HUMAN PROTEIN
					PHOSPHATASE 2C BETA ISOFORM [H.sapiens], Homo sapiens cDNA FLJ30553 fis, clone BRAWH2003689, highly similar to Mus musculus clone mouse1.9 mustive
					protein phosphatase type 2C mRNA, protein phosphatase 18 (formerly 2C),
2355		25529 NM 033096	0		magnesium-dependent, beta isoform, protein phosphatase 1B, magnesium
		1			dependent, beta isotorm  ESTS, Highly similar to P2/CB. HTIMAN PROTEIN PHOSPHATASE 2/2 BETA
					ISOFORM [H.sapiens], ESTs, Weakly similar to P2CB HUMAN PROTEIN
					PHOSPHATASE 2C BETA ISOFORM [H.sapiens], Homo sapiens cDNA FLJ30553
					fis, clone BRAWH2003689, highly similar to Mus musculus clone mouse 1-9 putative
					protein phosphatase type 2C mRNA, protein phosphatase 1B (formerly 2C),
2255		900000 111			magnesium-dependent, beta isoform, protein phosphatase 1B, magnesium
3		ININI 033080			dependent, beta isoform
					ESTs, Highly similar to PZCB_HUMAN PROTEIN PHOSPHATASE 2C BETA
					ISOFORM [H.sapiens], ESTs, Weakly similar to P2CB_HUMAN PROTEIN
,	•				PHOSPHATASE 2C BETA ISOFORM [H.sapiens], Homo sapiens cDNA FLJ30553
	_				fis, clone BRAWH2003689, highly similar to Mus musculus clone mouse1-9 putative
					protein phosphatase type 2C mRNA, protein phosphatase 1B (formerly 2C),
2255		10148 NIM 022006			magnesium-dependent, beta isoform, protein phosphatase 1B, magnesium
3		080000	- 1		dependent, beta isoform
					ES IS, HIGHLY SIMILIAR TO PABLE HUMAN POLYADENYLATE-BINDING PROTEIN T
					IH. sapiens], ESTs, Moderately similar to NUCLEOLIN [M.musculus], ESTs,
			-		Moderately similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1
		-			[M.musculus], ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN [H.sapiens],
					ESTs, Weakly similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 1
					[M.musculus], Nucleolin, RIKEN cDNA 4932702K14 gene, nucleolin, pigpen, poly A
2540	-	10840 NIM 134252	_=		binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 3, poly(A)
3		104000	=		binding protein, cytoplasmic, pseudogene 2
		_			ESTS, Highly similar to PAB1_HUMAN POLYADENYLATE-BINDING PROTEIN 1
2464		18025 NM 053989	> -		in.sapiensj, Riken cuna 2810411E22 gene, RIKEN cDNA 4432411E13 gene,
		1			KINEIV CLINA 4830431E10 gene

TABLE 3	3			THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	Section of the	ীত্তিন ভূটিল ১০০০ - শুক্তি শুক্তিমিণ্ট Ref. 44921-5090-01-WO/2105485
SEO O	GLGC ID No.	GenBank Acc. No.	Model Code Human H	Human Homologous Known Gene Name	- :	Human Homologous Sequence Cluster Title
2235		12638 NM 031099	o)			ESTs, Highly similar to PC4210 ribosomal protein L5 [H.sapiens], ribosomal protein L5
2235		12639 NM_031099	50		E	ESTs, Highly similar to PC4210 ribosomal protein L5 [H.sapiens], ribosomal protein L5
						ESTs, Highly similar to PMX1_MOUSE Paired mesoderm homeobox protein 1 (PRX)  1) (Paired related homeobox protein 1) (Homeobox protein MhoX) (Homeobox protein K-2) (Rhox) [R.norvegicus], ESTs, Weakly similar to PMX1_MOUSE Paired
						mesoderm homeobox protein 1 (PRX-1) (Paired related homeobox protein 1) (Homeobox protein MhoX) (Homeobox protein K-2) (Rhox) [R.norvegicus], paired
896		7212 AI014065	රිරි			mesoderm homeo box 1, paired related homeobox 1, paired related nomeobox protein
						ESTS, Highly Similar to RASH_RALT RANSFORMING PROTEIN P2117-RAST (C. H-RAS) [R.norvegicus], Harvey rat sarcoma oncogene, subgroup R, Harvey rat
						sarconta virus officogene, ivus fituscutus, cirmiar to variatas fraivey far sarconta viral oncogene homolog, clone MGC:19390 IMAGE:3152667, mRNA, complete cds, related RAS viral (r-ras) oncogene homolog, v-Ha-ras Harvey rat sarcoma viral
1300		4445 AI175466				oncogene homolog
					;	ES1s, Highly similar to RL26_HUMAN buS RIBUSUMAL PRUTEIN L26 [H.sapiens], ESTs, Highly similar to S33713 ribosomal protein L26, cytosolic [H.sapiens] ESTs, Moderateiv similar to RL26, HUMAN 60S RIBOSOMAL
438		18542 AA893493	Đ			PROTEIN L26 [H.sapiens], ribosomal protein L26, ribosomal protein L26-like 1
						ESTs, Highly similar to RL26_HUMAN 6US KIBOSOMAL PROTEIN L26 [H.sapiens], ESTs, Highly similar to S33713 ribosomal protein L26, cytosolic
2646	-	18541 X14671	<u> </u>			In Septensy, 1951s, wood are for succession of Nezo_ Townsy 500 NEOCOMPLE. PROTEIN L26 [H.sapiens], ribosomal protein L26, ribosomal protein L26-like 1
						ESTs, Highly similar to RS26_HUMAN 40S RIBOSOMAL PROTEIN S26 [H.sapiens], Homo sapiens, clone IMAGE.4100953, mRNA, polymerase (RNA) II
1903	1	815 NM_013224	g, h, l, w, x			(DNA directed) polypeptide D, ribosomal protein S26

TABLE	<b>دى</b>		140	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	. 23 %.
SEO		GenBank Acc.			Sept.
₽	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to S12520 core protein A1 [H.sapiens], ESTs, Highly similar to
					ineterogeneous riponuclear particle protein A1 [H.sapiens], ESTs, Moderately similar
					to heterogeneous ribonuclear particle protein A1 [H.sapiens], Mus musculus, Similar
					to TAR DNA binding protein, clone MGC:19284 IMAGE:4016437, mRNA, complete
					cds, RIKEN cDNA 2610510D13 gene, RIKEN cDNA 4930547K05 gene,
<u>~</u>	15011	15011 44799893	<u>.</u>		heterogeneous nuclear ribonucleoprotein A1, heterogeneous nuclear
	3	2000	1991		ribonucleoprotein A3
			•		ESTs, Highly similar to S57449 fusca protein homolog - rat [R.norvegicus], ESTs,
					Weakly similar to S57449 fusca protein homolog - rat [R.norvegicus]. G protein
_	_				pathway suppressor 1, Mus musculus, Similar to G protein pathway suppressor 1.
2457	1	000000	-		clone MGC:7191 IMAGE:3481979, mRNA, complete cds, RIKEN cDNA
/647	1/000	BOSSO MINI / CSO			2400006A19 gene
			-		ESTs, Highly similar to S63665 titin protein [H.sapiens], ESTs, Weakly similar to
					S63665 titin protein [H.sapiens], Homo sapiens cDNA FLJ31994 fis, clone
27	70007	20000			NT2RP7009215, Homo sapiens, Similar to RIKEN cDNA 1810054013 gene, clone
0	18001	I SOSTI ATUTUDOS	۵		IMAGE:3845933, mRNA, partial cds
					ESTs, Highly similar to S68215 Mas 20 protein [H.sapiens], Homo sapiens cDNA
					FLJ30361 fis, clone BRACE2007764, RIKEN cDNA 1810060K07 gene, RIKEN
2502	10544	10544 NIM 150025	:		cDNA 4930553D19 gene, translocase of outer mitochondrial membrane 20 (yeast)
1001	1		o, t, u, v		homolog
					ESTs, Highly similar to S68418 protein phosphatase 1M chain M110 isoform - rat
					[R.norvegicus], ESTs, Weakly similar to S68418 protein phosphatase 1M chain
		-			M110 isoform - rat (fragment) [R.norvegicus], expressed sequence AI449786,
		-	<u>.</u>		expressed sequence AI746547, leukocyte receptor cluster (LRC) member 3, myosin
9	20082	7590544 6806	:= 0		phosphatase, target subunit 1, protein phosphatase 1, regulatory (inhibitor) subunit
3	20002		a, a, =		12A

TABLE 3	3	3			CATOLOGOUS NO GOOD * MODE ALL DAY AND CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF THE CONTROL OF TH
SEO		GenBank Acc.			
<u></u>	GLGC ID No.	Ño.	Model Code	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Titte
				ESIS, H	ESI's, Highly similar to S70642 ubiquitin ligase Nedd4 - rat (fragment)
				[R.norve	[R.norvegicus], ESTs, Moderately similar to S70642 ubiquitin ligase Nedd4 - rat
				(fragmer	(fragment) [R.norvegicus], Mus musculus, clone MGC:12070 IMAGE:3708271,
				mRNA, c	mRNA, complete cds, RIKEN cDNA 1700056O17 gene, RIKEN cDNA 5830462N02
				gene, ex	gene, expressed sequence AW212605, neural precursor cell expressed,
				developr	developmentally down-regulated 4, neural precursor cell expressed,
-				developr	developmentally down-regulated gene 4a, thyroid hormone receptor interactor 12.
1388	- 1	23043 AI178968	q	ubiquitin	ubiquitin protein ligase E3A
				ESIS, TI	ESTS, Highly similar to SL56_KAT SODIOM-DEPENDENT MOLTIVITAMIN
			-	TRANSF	TRANSPORTER (NA(+)-DEPENDENT MULTIVITAMIN TRANSPORTER)
				[R.norve,	R.norvegicus], ESTs, Highly similar to SL56_RAT Sodium-dependent multivitamin
				transport	transporter (Na(+)-dependent multivitamin transporter) [R.norvegicus], Homo
				sapiens	sapiens cDNA FLJ14949 fis, clone PLACE2000341, highly similar to Homo sapiens
				3-wnipos	sodium-dependent multivitamin transporter (SMVT) mRNA, Homo sapiens mRNA;
				CDNA D	cDNA DKFZp434F152 (from clone DKFZp434F152), solute carrier family 5 (sodium
Č				iodide sy	iodide symporter), member 5, solute carrier family 5 (sodium-dependent vitamin
8007		502 NM_130/46	aa	transport	transporter), member 6
				ESIS, H	ESTS, Highly similar to SL56_RAT SODIUM-DEPENDENT MULTIVITAMIN
				TRANSP	TRANSPORTER (NA(+)-DEPENDENT MULTIVITAMIN TRANSPORTER)
	-			[R.norveç	R.norvegicus], ESTs, Highly similar to SL56_RAT Sodium-dependent multivitamin
				transport	transporter (Na(+)-dependent multivitamin transporter) [R.norvegicus], Homo
				sapiens	sapiens cDNA FLJ14949 fis, clone PLACE2000341, highly similar to Homo sapiens
				sodium-d	sodium-dependent multivitamin transporter (SMVT) mRNA, Homo sapiens mRNA;
				CDNA DK	cDNA DKFZp434F152 (from clone DKFZp434F152), solute carrier family 5 (sodium
				iodide syl	odide symporter), member 5, solute carrier family 5 (sodium-dependent vitamin
2508		1503 NM_130746	9	transport	transporter), member 6
				1000	
				in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	ES1s, righty similar to 108726 tubulin beta chain [H.sapiens], ESTs, Highly similar
				[188] (1)	10 1051_RAI 1050CIN BETA CHAIN (1 BETA-15) (R.norvegicus), RIKEN CDNA
			-	16710147	2410129E14 gene, KIKEN CDNA 4930447K03 gene, RIKEN CDNA 4930542G03
2585		87778 MINI 97778		(gene, Ka)	gene, Rat mRNA for beta-tubulin T beta15, expressed sequence Al451582,
2002	ł	077041 1414		expresser	expressed sequence C79445, tubulin, beta 3, tubulin, gamma 1

TABLE 3	3		100		Attv. Ref. 44921-5090:01-WO/2105485
SEO		GenBank Acc.			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
<u>D</u>	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Highly similar to T42731 atrophin-1 related protein - rat [R.norvegicus], ESTs,
					Weakly similar to dentatorubral pallidoluysian atrophy [M.musculus], arginine-
			b, o, u, v,	3	glutamic acid dipeptide (RE) repeats, dentatorubral pallidoluysian atrophy,
2449		385 NM_053885	ee, ff, kk	9	expressed sequence AW556404, expressed sequence AW742570
					ESTs, Highly similar to T46266 hypothetical protein DKFZp761A179.1 [H.sapiens],
1201		11346 AI145991	jj, kk	-3	KIAA1246 protein, KIAA1580 protein, hypothetical protein FLJ14594
					ESTs, Highly similar to T46904 hypothetical protein DKFZp761D081.1 [H.sapiens],
				<u>-</u>	Homo sapiens cDNA: FLJ21587 fis, clone COL06946, likely ortholog of mouse
446		19411 AA893667	cc, dd	1	Arkadia
				<u> </u>	ESTs, Highly similar to T50619 hypothetical protein DKFZp762M136.1 [H.sapiens],
489		16753 AA900474	w, ×	<u>4.7</u>	hypothetical protein DKFZp762M136
				<u>u</u>	ESTs, Highly similar to TRANSCRIPTION FACTOR HES-5 [M.musculus], hairy and
2192		11628 NM_024383	р	9	enhancer of split (Drosophila) homolog 2, hairy and enhancer of split 5, (Drosophila)
					ESTs, Highly similar to TVHUR1 transforming protein rap1b [H.sapiens], ESTs,
					Weakly similar to GTP-binding protein ROC2 [M.musculus], Mus musculus, Similar
				Ţţ.	to RAS-like, estrogen-regulated, growth-inhibitor, clone MGC:31467
				<u></u>	IMAGE:4483442, mRNA, complete cds, RAP1B, member of RAS oncogene family,
				u.	RAP2B, member of RAS oncogene family, RAS-like, estrogen-regulated, growth-
2536		16456 NM_134346			inhibitor
				ш !	ESTs, Highly similar to TYB4 MOUSE THYMOSIN BETA-4 [M.musculus], ESTs,
				V	Moderately similar to PC4259 ferritin associated protein [H.sapiens], Homo sapiens
			c, w, x, aa,	0	cDNA FLJ31414 fis, clone NT2NE2000260, weakly similar to THYMOSIN BETA-4,
2256	`	15052 NM_031136	qq	11	thymosin, beta 4, X chromosome
				<u> </u>	ESTs, Highly similar to UV EXCISION REPAIR PROTEIN PROTEIN RAD23
				1	HOMOLOG B [M.musculus], RAD23 homolog B (S. cerevisiae), RAD23b homolog
1202		11363 AI145997	hh		(S. cerevisiae)
				<u> </u>	ESTs, Moderately similar to Arg/Abl-interacting protein ArgBP2 [Rattus norvegicus]
					[R.norvegicus], ESTs, Weakly similar to Arg/Abl-interacting protein ArgBP2 [Rattus
				<u> </u>	norvegicus] [R.norvegicus], RIKEN cDNA 2010203003 gene, SH3-domain protein 5
2428	ı	14015 NM_053770	듈		(ponsin), sorbin and SH3 domain containing 1

TABLE 3	3			という。	ı
SEO		GenBank Acc.			2.22
<u>∩</u>	GLGC ID No.	No.	Model Code Human Ho	mologous Known Gene Name.	Human Homologous Sequence Cluster Title
2428	ļ	14017 NM_053770	hh	ESTs, Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Moding Mod	ESTs, Moderately similar to Arg/AbI-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to Arg/AbI-interacting protein ArgBP2 [Rattus norvegicus] [R.norvegicus], RIKEN cDNA 2010203C03 gene, SH3-domain protein 5 (ponsin), sorbin and SH3 domain containing 1
1693		381 (100124	 	ESTS, Mode ESTS, Weak ESTS, Weak ESTS, Weak ESTS, Weak ESTS, Weak	ESTs, Moderately similar to elastase 3B, pancreatic [Mus musculus] [M.musculus], ESTs, Weakly similar to EL2 MOUSE ELASTASE 2 PRECURSOR [M.musculus], ESTs, Weakly similar to EL2_RAT Elastase 2 precursor [R.norvegicus], elastase 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 2, elastase 34, elastase 34, parareatic frootests 31, elastase 34, elastase 34, parareatic frootests 31, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase 34, elastase
2222		17727 NM_031043	ပ	ESTs, Mode glycogenin 'glycogenin'	ESTs, Moderately similar to glycogenin 2 [Homo sapiens] [H.sapiens], glycogenin, glycogenin 1, glycogenin 2
2138		9541 NM_022542	ت. ف	ESTS, Mode Weakly simi clone MGC::	ESTs, Moderately similar to rhoB gene [Rattus norvegicus] [R.norvegicus], ESTs, Weakly similar to rhoB gene [Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:29297 IMAGE:5003249, mRNA, complete cds, RIKEN cDNA 5830400A04 cene, ras homolog R (RhoR) ras homolog gene fast homolog R
782	21596	21596 AI009168	: <u>-</u> :	ESTs, Mode musculus, cl 5830400A0. (RhoB), ras	ESTs, Moderately similar to rhoB gene [Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:29297 [MAGE:5003249, mRNA, complete cds, RIKEN cDNA 5830400A04 gene, cell division cycle 42 homolog (S. cerevisiae), ras homolog gene family, member B, ras homolog gene family, member U, rhoB gene
2348		18898 NM_031985	:==	ESTs, Modera kinase 2 [Mus protein S6 klin polypeptide 2	ESTs, Moderately similar to ribosomal protein S6 kinase, 70kD, polypeptide 2; S6 kinase 2 fMus musculus] [M.musculus], RIKEN cDNA 2610318115 gene, ribosomal protein S6 kinase, 70kD, polypeptide 1, ribosomal protein S6 kinase, 70kD, polypeptide 2
2348	ļ	18899 NM_031985	<u></u>	ESTs, Modera kinase 2 [Mus protein S6 kin	ESTs, Moderately similar to ribosomal protein S6 kinase, 70kD, polypeptide 2; S6 kinase 2 [Mus musculus] [M.musculus], RIKEN cDNA 2610318115 gene, ribosomal protein S6 kinase, 70kD, polypeptide 1, ribosomal protein S6 kinase, 70kD, polypeptide 2
215		16934 AA851403	р	ESTs, Mode (M.musculus ASHI), RIKE	ESTs, Moderately similar to RIKEN cDNA 2900010105 [Mus musculus] [M.musculus], NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kD, ASHI), RIKEN cDNA 2900010105 gene

TABLE	TABLE 3		: ;;;e	を 一、 一、 一	ŀ
SEO		GenBank Acc.		1. はなる 一般の 90-01-WO/2105485	
٥	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	auence Cluster Title
2157		194 NM_022861	cc, dd	ESTs, Moderately similar IM musculus 1 upo-13-lik	ESTs, Moderately similar to UNC-13 homolog (C. elegans) 1 [Mus musculus]
				ESTs, Moderately similar	ESTs, Moderately similar to 2118320A neurodegeneration-associated protein 1
				[Rattus norvegicus] [R.nc	Rattus norvegicus] [R.norvegicus], KIAA0438 gene product, Mus musculus, clone
				IMAGE:3499845, mRNA	MAGE:3499845, mRNA, partial cds, hypothetical protein FLJ20552, hypothetical
				protein LOC51255, praja	protein LOC51255, praja 1, praja1, RING-H2 motif containing, rotein carrying the
1245	•	17783 AI171206	ee, ff	RING-H2 sequence moti	RING-H2 sequence motif, similar to RIKEN cDNA 1300002C13, zinc finger protein
				ESTs, Moderately similar	ESTs, Moderately similar to A40936 stathmin [H.sapiens]. expressed senilence
1828 1828		20/02/NM_017166	j, k, y, z	AI131641, leukemia-asso	ociated gene. stathmin 1/onconnotein 18
				ESTs, Moderately similar	ESTs, Moderately similar to AAKG_RAT 5'-AMP-activated protein kinase, gamma-1
				subunit (AMPK gamma-1	subunit (AMPK gamma-1 chain) (AMPKg) [R.norvegicus], Mus musculus, clone
				MGC:18882 IMAGE:4236	MGC:18882 IMAGE:4238045, mRNA, complete cds, RIKEN cDNA 2410051C13
19/5		040040 MIN CAP4		gene, expressed sequen	gene, expressed sequence Al854673, expressed sequence BB036179, protein
3		U10010_		kinase, AMP-activated, g	amma 1 non-catalytic subunit
	-,			ESTs, Moderately similar	ESTs, Moderately similar to CAZ3_MOUSE F-ACTIN CAPPING PROTEIN ALPHA-
				3 SUBUNIT (CAPZ ALPH	3 SUBUNIT (CAPZ ALPHA-3) (GERM CELL-SPECIFIC PROTEIN 3) [M.musculus],
113	7140	7448 A ABODOA		capping protein (actin fila	capping protein (actin filament) muscle Z-line, alpha 2, capping protein alpha 2,
1 5	140		r, g	capping protein alpha 3	
				ESTE Moderatoly similar	S S S S S S S S S S S S S S S S S S S
	<del></del>			(POLYCOMB 2 HOMO)	(POLYCOMB 2 HOMO) OG) (PC2) (HPC2) (HPC2) (HPC2) (HPC2) (HPC2) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (HPC3) (H
1103	41027	4102 AI102524	99	class homolog. Droscophii	3) hypothetical protein MGC10561
				ESTs, Moderately similar	ESTs, Moderately similar to CGMP-DEPENDENT 3/5-CYCLIC
				PHOSPHODIESTERASE	PHOSPHODIESTERASE [R.norvegicus], Mus musculus, Similar to cyclic GMP
2220	702	02010 MIN 07	<b>4</b>	stimulated phosphodieste	stimulated phosphodiesterase, clone IMAGE:3598413, mRNA, partial cds,
6777	2	101 CO   INI.	у, 2, ее, п	phosphodiesterase 10A, r	shosphodiesterase 2A, cGMP-stimulated
				ESTS, Moderately similar	ESTS, Moderately similar to CNE6_MOUSE COPINE VI (NEURONAL-COPINE) (N-
				COPINE) [M.musoulus], E	COPINE) [M.musculus], ESTs, Weakly similar to CNE3_HUMAN COPINE III
1593	18854	18854 A1237636	- - - -	IH:sapiens), RIKEN cDNA	IH.sapiensj, RIKEN cDNA 3632411M23 gene, copine 6, copine II, copine III,
33	10001		1, 9, 1, 111	expressed sequence AU0	expressed sequence AU067659, expressed sequence AW047065

TABLE	3			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	7. الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين الماليمين
SEO ID GI	GLGC ID No.	GenBank Acc. No.	Model Code	s Known Gene Name	Human Homologous Sequence Cluster Title
000	i	000000000000000000000000000000000000000		ω × ε ÷	ESTs, Moderately similar to CO18_RAT Coronin 1B (Coronin 2) [R.norvegicus], Mus musculus, Similar to coronin, actin binding protein, 2A, clone IMAGE:4984475, mRNA, partial cds, coronin, actin binding protein 1B, coronin, actin binding protein 1C, busculoting protein
1323		13339/AH 76308 13339/AH 76308 17400 AH 2753	1 'S o	<u>-</u> ш <u> </u>	ESTS, Moderately similar to DIP_HUMAN DIP PROTEIN [H.sapiens], KIAA0669 gene product, RIKEN cDNA 0610009M14 gene, RIKEN cDNA 1810043J12 gene, TSC-22-like, transforming growth factor beta 1 induced transcript 4, transforming
			a, p, q, z,	u & F	ESTs, Moderately similar to DIP_HUMAN DIP PROTEIN [H.sapiens], KIAA0669 gene product, RIKEN cDNA 0610009M14 gene, RIKEN cDNA 1810043J12 gene, TSC-22-like, transforming growth factor beta 1 induced transcript 4, transforming
1854		17401 NM_013043	ee, ff, kk	gin 4 I	growth factor beta-stimulated protein   SC-22 ESTS, Moderately similar to HBZD_RAT RT1 CLASS II HISTOCOMPATIBILITY ANTIGEN, D-1 BETA CHAIN PRECURSOR (R.norvegicus), ESTs, Weakly similar to HB2D_RAT RT1 CLASS II HISTOCOMPATIBIL ITY ANTIGEN. D-1 BETA CHAIN
2652		16715 X53054	ii 'pp	. a a & E	PRECURSOR [R.norvegicus], Rattus norvegicus Class II MHC RT1.D(a) beta chaln precursor (RT1.D(a)) mRNA, complete cds, Rattus norvegicus Class II MHC RT1.D(n) beta chain precursor (RT1.D(n)) mRNA, complete cds, major histocompatibility complex, class II, DR beta 5
				m « I C g	ESTs, Moderately similar to HB2D_RAT RT1 CLASS II HISTOCOMPATIBILITY ANTIGEN, D-1 BETA CHAIN PRECURSOR [R.norvegicus], ESTs, Weakly similar to HB2D_RAT RT1 CLASS II HISTOCOMPATIBILITY ANTIGEN, D-1 BETA CHAIN PRECURSOR [R.norvegicus], Rattus norvegicus Class II MHC RT1.D(a) beta chain precursor (RT1.D(a)) mRNA, complete cds, Rattus norvegicus Class II MHC
2652		16716 X53054	U_	œ em s	RT1.D(n) beta chain precursor (RT1.D(n)) mRNA, complete cds, major histocompatibility complex, class II, DR beta 5 ESTs, Moderately similar to JC7220 nuclear protein SR-25 [H.sapiens], HSVI
382	- 1	18209 AA892318	s, t	38	Sequence AA408365

TABLE 3	3			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	14 A4921-5090-01-WO/2105485
SEO D	GLGC ID No.	GenBank Acc. No.	Model Code	Human Homologous Known Gene Name	I
					ESTs, Moderately similar to JE0343 terf protein - rat [R.norvegious], ESTs, Weakly similar to BUTY MOUSE BUTYROPHILIN PRECURSOR [M.musculus], ESTs,
					Weakly similar to JE0343 terf protein - rat [R.norvegicus], butyrophilin, subfamily 1, member A1, expressed sequence A4414909, expressed sequence AW538890, ret
854		7120 AI012393	>		finger protein, tripartite motif protein 17, tripartite motif-containing 17
					ESTS, Woderately similar to KHL1_MUUSE Keich-like protein 1 [W.musculus], ESTS, Weakly similar to ENC1_MOUSE ECTODERM-NEURAL CORTEX-1
					PROTEIN (ENC-1) [M.musculus], ESTs, Weakly similar to KRP1_RAT Kelch-related
					protein 1 (Kel-like protein 23) (Sarcosin) [R.norvegicus], KIAA1842 protein, Mus
					musculus, clone MGC:28950 IMAGE:4235202, mRNA, complete cds, RIKEN cDNA
					1300013C10 gene, expressed sequence AL022703, kelch-like 1 (Drosophila),
2485		15460 NM_057191	d, ee, ff		sarcomeric muscle protein, speckle-type POZ protein
					ESTs, Moderately similar to KHL1_MOUSE Kelch-like protein 1 [M.musculus],
					ESTs, Weakly similar to ENC1_MOUSE ECTODERM-NEURAL CORTEX-1
					PROTEIN (ENC-1) [M.musculus], ESTs, Weakly similar to KRP1_RAT Kelch-related
					protein 1 (Kel-like protein 23) (Sarcosin) [R.norvegicus], KIAA1842 protein, Mus
					musculus, clone MGC:28950 IMAGE:4235202, mRNA, complete cds, RIKEN cDNA
					1300013C10 gene, expressed sequence AL022703, kelch-like 1 (Drosophila),
2485		15461 NM_057191	ee, ff		sarcomeric muscle protein, speckle-type POZ protein
					ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE
					PRECURSOR [H.sapiens], ESTs, Moderately similar to LYOX_RAT Protein-lysine 6-
					oxidase precursor (Lysyl oxidase) [R.norvegicus], Lysyl oxidase, Iysyl oxidase, Iysyl
1415		8180 AI180353	바		oxidase-like 2, lysyl oxidase-like 4
					ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE
		·			PRECURSOR [H.sapiens], ESTs, Weakly similar to LYOX_RAT Protein-lysine 6-
					oxidase precursor (Lysyl oxidase) [R.norvegicus], Lysyl oxidase, lysyl oxidase, lysyl
114		22386 AA800844	g		oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2
					ESTs, Moderately similar to LYOX_HUMAN PROTEIN-LYSINE 6-OXIDASE
					PRECURSOR [H.sapiens], ESTs, Weakly similar to LYOX_RAT Protein-lysine 6-
					oxidase precursor (Lysyl oxidase) [R.norvegicus], Lysyl oxidase, lysyl oxidase, lysyl
252		22385 AA859805	g, s, t		oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2

TABLE	3			大 一	Atty. Ref. 44921-5090-01-WO/2105485
SEO	GLGC ID No.	GenBank Acc. No.	Model Code Human H	omologous Known Gene Name	
				ESTS, Moderately similar to NUCLEOLIN [M.musculus], ESTS, Weakly similar to NUCL_HUMAN NUCLEOLIN A35804 nucleolin [H.saplens], ESTS, Weakly similar to NUCL_HUMAN NUCLEOLIN	ij, ESTs, Weakly similar to NUCL_HUMAN NUCLEOLIN
				[H.sapiens], ESTs, Weakiy similar to NUCL_KAT Nucleolin (Protein C23) [R.norvegicus], RIKEN cDNA 120009A02 gene, eukaryotic translation initiation	eolin (Protein C23) ryotic translation initiation
1787		8829 NM_012749	j, k, hh, kk	factor 3, subunit 4 (delta, 44 kDa), nucleolin, pigpen	vijace sloba-1 elibilnit
				precursor (4-PH alpha-1) (Procollagen-proline, 2-oxoglutarate-4-dioxygenase alpha-	utarate-4-dioxygenase alpha-
				1 subunit) [R.norvegicus], Homo sapiens, clone IMAGE:3162218, mRNA, partial	E:3162218, mRNA, partial
-				cas, RIKEN CLINA 4933400EZO gene, procollagen-proune, z-oxogiutarate 4- Idioxvoenase (proline 4-hydroxviase), albha 1 polypeptide, procollagen-proline, 2-	line, z-oxogiutarate 4- ide, procollagan-proline, 2-
				oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide	pha II polypeptide,
				procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha	oline 4-hydroxylase), alpha
				polypeptide I, procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4	xygenase (proline 4-
1483		23304 AI231310	ee, ff	hydroxylase), alpha polypeptide II	
				ESTS, Moderately Similar to PAB1 MOUSE POLYADENYLATE-BINDING PROTEIN 11 M muscriffus) ESTs, Weakly similar to DAB1 MOUSE POLYADENYLATE-	NYLATE-BINDING PROTEIN
			-	BINDING PROTEIN 1 [M.musculus], RIKEN cDNA 4932702K14 gene, poly A	32702K14 gene, poly A
				binding protein, cytoplasmic 1, poly(A) binding protein, cytoplasmic 4 (inducible	cytoplasmic 4 (inducible
1536	15685	5685 AI233870	hh	(form)	
				ESTs, Moderately similar to PRS6_HUMAN 26S PROTEASE REGULATORY	TEASE REGULATORY
1663	1884	1884   150695	÷.	SUBUNIT OB [H.Sapiens], proteasome (prosome, macropain) 203 subunit, ATrase,	ropain) zos subunit, ATPase,
			, ,	ESTS, Moderately similar to RBMA_RAT RNA-BINDING PROTEIN 10 (RNA	G PROTEIN 10 (RNA
				BINDING MOTIF PROTEIN 10) (S1-1 PROTEIN) [R.norvegicus], Homo sapiens	orvegicus], Homo sapiens
				CDNA FLJ10100 fis, clone HEMBA1002469, moderately similar to DXS8237E	ly similar to DXS8237E
				PROTEIN, Mus musculus, Similar to RNA binding motif protein 10, clone MGC:7826	if protein 10, clone MGC:7826
				IMAGE:3500403, mRNA, complete cds, RNA binding motif protein 10, S1-1 protein	notif protein 10, S1-1 protein
862		6489 A1012636	=	from liver	
				ESTs, Moderately similar to S04363 class II histocompatibility antigen RT1-B alpha	atibility antigen RT1-B alpha
		1		chain precursor - rat [R.norvegicus], histocompatibility 2, O region alpha locus,	2, O region alpha locus,
1691		14968 K02815	S	major histocompatibility complex, class II, UC alpha	

TABLE 3	13		ľ		. Altv. Ref. 44921-5090-01-WO/2105485
SEQ C	GI GC ID No	GenBank Acc.	Model Code Human	Hirman Homologous Known Gene Name	Hilman Homologous Seguence Christer Title
					ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 - rat
					[R.norvegious], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein
_					1 - rat [R.norvegicus], Mus musculus, Similar to regulator of differentiation (in S.
<del></del>					pombe) 1, clone MGC:11742 IMAGE:3969488, mRNA, complete cds, RIKEN cDNA
					2810036L13 gene, heterogeneous nuclear ribonucleoprotein L, polypyrimidine tract
483		3903 AA899986	w, x		binding protein 1, polypyrimidine tract binding protein 2
					ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 - rat
				*****	[R.norvegicus], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein
					1 - rat [R.norvegicus], Mus musculus, Similar to regulator of differentiation (in S.
					pombe) 1, clone MGC:11742 IMAGE:3969488, mRNA, complete cds, RIKEN cDNA
					2810036L13 gene, heterogeneous nuclear ribonucleoprotein L, polypyrimidine tract
1120		3905 AI103403	œ		bindina protein 1. polypyrimidine tract bindina protein 2
					ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 - rat
					[R.norvegicus], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein
					1 - rat [R.norvegicus], Mus musculus, Similar to regulator of differentiation (in S.
					pombe) 1, clone MGC:11742 IMAGE:3969488, mRNA, complete cds, RIKEN cDNA
					2810036L13 gene, heterogeneous nuclear ribonucleoprotein L, polypyrimidine tract
2126		3900 NM_022516	s, t		binding protein 1, polypyrimidine tract binding protein 2
					ESTs, Moderately similar to S15552 polypyrimidine tract-binding protein 1 - rat
					[R.norvegicus], ESTs, Weakly similar to S15552 polypyrimidine tract-binding protein
					1 - rat [R.norvegicus], Mus musculus, Similar to regulator of differentiation (in S.
					pombe) 1, clone MGC:11742 IMAGE:3969488, mRNA, complete cds, RIKEN cDNA
					2810036L13 gene, heterogeneous nuclear ribonucleoprotein L, polypyrimidine tract
2126		3904 NM_022516	aa, bb, II		binding protein 1, polypyrimidine tract binding protein 2
					ESTs, Moderately similar to S47073 finger protein HZF2, Krueppel-related
					[H.sapiens], zinc finger protein 191, zinc finger protein 354A, zinc finger protein
946		7961 AI044042	<u>ا</u> ' عا		354B
					ESTs, Moderately similar to T46637 transcription factor 1, neural - rat
					[R.norvegicus], ESTs, Weakly similar to A35804 nucleolin [H.sapiens], Homo
					sapiens mRNA; cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus
					musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library,
					clone:2810003118:myelin transcription factor 1-like, full insert sequence, myelin
938		22596 AA955298	y, z		transcription factor 1-like, nucleolin

TABLE 3	3		1	the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the terms of the t	4921-5090-01-WO/2105485 Atty, Ref. 44921-5090-01-WO/2105485
SEO O	GC ID	GenBank Acc. No.	Model Code	wn Gene Name	n Homologous
2520	Į	10860 NM 133423	- <del></del>	ESTS, (R.nor) DKFZ full-ler	ESTs, Moderately similar to T46637 transcription factor 1, neural - rat [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434E0922 (from clone DKFZp434E0922), Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810003118:rnyelin transcription factor 1-like, full insert sequence, myelin transcription factor 1-like
1000	Į.	10077 AIN 5002 F		ESTS, [H.sat (Drost)	ESTs, Moderately similar to 147137 hypothetical protein DKFZp761K2213.1 [H.sapiens], myeloid/lymphoid or mixed lineage-leukemia translocation to 4 homolog (Drosophila), myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila), translocated to 4
834		7060 AI011547	م أ	ESTS. (H.sar	ESTs, Moderately similar to T47183 hypothetical protein DKFZp434K1822.1 [H.sapiens], ubiquitin specific protease 22
2549		25479 NM 138549	## ##	ESTs. Weak Seque	ESTs, Moderately similar to T50638 synaptic glycoprotein SC2 [H.sapiens], ESTs, Weakly similar to T50638 synaptic glycoprofein SC2 [H.sapiens], expressed sequence A1173355, glycoprotein, synaptic 2, steroid 5 alpha-reductase 2, steroid 5 alpha-reductase 2. steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2)
118		21416 AA800962	hh	ESTS hypot comp	ESTs, Moderately similar to TALIN [M.musculus], Mus musculus, Similar to hypothetical protein MGC11134, clone MGC:41710 IMAGE:1364225, mRNA, complete cds, talin, talin 2
1774	ļ ļ	1514 NM_012678	pp	ESTs [M.m.	ESTs, Moderately similar to TROPOMYOSIN 5, CYTOSKELETAL TYPE [M.musculus], tropomyosin 4

SEQ GLGC ID	GenBank Acc.			Ally, Ref. 4492/1-5090-01-WO/2105485
0 0 0			_	
	ID No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
<del></del>			ES-21 KD UE	ES15, woderatery Simirar to บธบจ_ศบพเลง บธเบบาาเง-บบงบบธสาเทธ Eiv2ทพE E2-21 KD UBCH6 [H.sapiens], ESTs, Weakly similar to S53358 ubiquitin-
			conjugating i	conjugating enzyme E2.17kB - rat [R.norvegicus], Homo sapiens cDNA FLJ25157
_			ils, clone CB KDA (EC 6.3	its, cione CERVOGUUS, nigniy similar to UBIQUITIN-CONJUGATING ENZYME E2-23 KDA (EC 6.3.2.19), Mus musculus. Similar to ubiquitin-conjugation enzyme F2F 3
			snobolomon)	(homologous to yeast UBC4/5), clone MGC:28917 IMAGE:4923869, mRNA,
			complete cds	complete cds, RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028I17 gene,
_			RIKEN CDNA	RIKEN cDNA 6130401J04 gene, hypothetical protein FLJ11011, ubiquitin-
			conjugating (	conjugating enzyme E2D 3 (UBC4/5 homolog, yeast), ubiquitin-conjugating enzyme
···,·	_		EZD 3 (nome	EZU 3 (nomologous to yeast UBC4/5), ubiquitin-conjugating enzyme E2E 1
502 485	4858 AA901238	×.×	(UBC4/5 hom	(UBC4/5 homolog, yeast), ubiquitin-conjugating enzyme E2E 2 (UBC4/5 homolog,
			FSTs Weak	Weimilar to 2 avaduitands coming (Bottus accessing)
<u>_</u>			colute corrior	solute carrier femily 05 (mitosbeadural actions)
		-	member 10.	source carrier ramily 20 (miliocitometrial carrier, adenine nucleotide translocator), member 10. solute carrier family 25 (milochondrial carrier, occalutorate carrier)
2115 2330	23300 NM_022398	jj. 茶	member 11	ביייני ביייני ביייני בי (ייינסיוסיומיים סוויפי, לאטפונומים מפ כמוויפי),
			ESTs, Weak	ESTs, Weakly similar to arachidonate 12-lipoxygenase [Rattus norvegicus]
- 0000	070700		[R.norvegicus	R.norvegicus), arachidonate 12-lipoxygenase, arachidonate 12-lipoxygenase,
	010150_MM_15052	۵, ۷	euebopnesd	pseudogene 2, arachidonate 15-lipoxygenase
			ESTs, Weaki	ESTs, Weakly similar to arachidonate 12-lipoxygenase [Rattus norvegicus]
2212 18/1	1845 NIM 024040	:	[R.norvegicus	R.nowegicus], arachidonate 12-lipoxygenase, arachidonate 12-lipoxygenase,
	010100	> ا	euebopnesd	pseudogene 2, arachidonate 15-lipoxygenase
			ESTs, Weakly	ESTs, Weakly similar to associated molecule with the SH3 domain of STAM [Homo
0547	4400 MIN 400504	1	sapiens] [H.s.	sapiens] [H.sapiens], RIKEN cDNA 1700095N21 gene, associated molecule with
		56	the SH3 domain of STAM	ain of STAM
			ESTS, Weakly	ESTs, Weakly similar to CgefZ-pending; CAMP-dependent Rap1 guanine-
		-	nuoleotide ex	nuoleotide exchange factor; cAMP-GEFII [Mus musculus] [M.musculus], Mus
			musculus, Sir	musculus, Similar to cAMP-regulated guanine nucleotide exchange factor I (cAMP-
			GEFI), clone	GEFI), clone MGC:19192 IMAGE:4236136, mRNA, complete cds, RIKEN cDNA
			4921517L17 (	4921517L17 gene, Rap1 guanine-nucleotide-exchange factor directly activated by
2004 1000	7 NIM 004600		CAMP, CAMP.	cAMP, cAMP-regulated guanine nucleotide exchange factor II, chromosome 20
	1900/JUM 021090		open reading	open reading frame 152, expressed sequence C86120

TABLE 3		, v.	A CAN		The same of the same	AND A MONTH TO CAMP TO A MAD A MODERN TO A MODERN TO THE TOTAL TO A MODERN TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTA
SEO		GenBank Acc.				
ث	GLGC ID No.	No.	Model Code	Human Homologous Known Gene Name		Human Homologous Sequence Clüster Title
611	20619,	20619 AA945737	d ea b			ESTs, Weakly similar to CXC chemokine receptor [Rattus norvegicus] [R.norvegicus], G protein-coupled receptor, chemokine (C-X-C motif), receptor 4
						ESTs, Weakly similar to CXC chemokine receptor [Rattus norveoicus]
2097	202491	20249 NM 022205	- =			R.norvegicus), G protein-coupled receptor, chemokine (C-X-C motif), receptor 4
			= -			(tashi), dienibalie (o-x-c) receptor 4 ESTs. Weakly similar to of-related zinc finger protein Mus musculus)
		:				Eco. World Strates to graduate and miga protein (was intoculus). (M.musculus), Homo sapiens, clone IMAGE:3956746, mRNA, partial cds, g1-related
1223	, 6969	6969 AI170244	hh			zinc finger protein, similar to RIKEN cDNA 1300002C13
						ESTs, Weakly similar to GABA(A) receptor-associated protein like 2; ganglioside
						expression factor 2 [Rattus norvegicus] [R.norvegicus], GABA(A) receptor-
						associated protein, GABA(A) receptor-associated protein like 1, GABA(A) receptor-
						associated protein like 2, GABA(A) receptor-associated protein-like 2, GABA(A)
9			o, I, m, bb,			receptors associated protein like 3, gamma-aminobutyric acid (GABA(A)) receptor-
1102	2999	5969 AI102520	ΚĶ			associated protein-like 1, gamma-aminobutyric acid receptor associated protein
						ESTs, Weakly similar to L1 cell adhesion molecule [Mus musculus] [M.musculus],
					<del></del> -	ESTs, Weakly similar to A41060 neural cell adhesion molecule L1 precursor
						[H.sapiens], ESTs, Weakly similar to S36126 neural cell adhesion molecule L1 - rat
						[R.norvegicus], L1 cell adhesion molecule, L1 cell adhesion molecule
						(hydrocephalus, stenosis of aqueduct of Sylvius 1, MASA (mental retardation,
0	70017	70070				aphasia, shuffling gait and adducted thumbs) syndrome, spastic paraplegia 1),
CRO	10801	3804 AIC18871	E ';			close homolog of L1, neuronal cell adhesion molecule
					<del></del>	=51s, Weakly similar to mitochondrial processing peptidase beta [Rattus
						norvegicus] [R.norvegicus], RIKEN cDNA 3110004O18 gene, mitochondrial
						processing peptidase beta, peptidase (mitochondrial processing) beta, ubiquinol-
						cytochrome c reductase core protein 1, ubiquinol-cytochrome c reductase core
2113	18221	18221 NM_022395	cc, dd			protein I
						ESTs, Weakly similar to S100 calcium-binding protein A9 (calgranulin B);
					<u></u>	intracellular calcium-binding protein (MRP14) [Rattus norvegicus] [R.norvegicus],
		1			<u></u>	S100 calcium binding protein A13, S100 calcium binding protein A7 (psoriasin 1),
2403	21445	21445 NM_053587	ee' ff		<u> </u>	S100 calcium binding protein A9 (calgranulin B)

TABLE 3	3	A. S.		では、「金剛選択」とき、1997年、1997年、「1998年の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の	20,20,0,0,0,0,0
SEO		GenBank Acc.		THE CONTROL OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	U1-WU/Z105485
≘.	GLGC ID No.	No.	Model Code Human F	Human Homologous Known Gene Name Human Homologous Sequence Cluster Title	
				ESTs, Weakly similar to Ser/Arg-related nuclear matrix protein; plenty-of-prolines-	ty-of-prolines-
				101; serine/arginine repetitive matrix protein 1 [Mus musculus] [M.musculus], Mus	uscufus], Mus
				musculus, Similar to hypothetical protein MGC13125, clone MGC:38070	020
				IMAGE:5252666, mRNA, complete cds, brain abundant, membrane attached signal	attached signal
2	0 0 0	00000		protein 1, expressed sequence At480556, glucocorticoid-induced gene 1,	ne 1,
0017	182401	18246 NIM_UZZ300	E.	serine/arginine repetitive matrix 1	
				ESTs, Weakly similar to syntenin [Rattus norvegicus] [R.norvegicus], syndecan	, syndecan
25.0	400704	000700	-	binding protein, syndecan binding protein (syntenin), syndecan binding protein	ng protein
2343	18/08	19768 NW 031986	1, g, cc, dd	(syntenin) 2	
				ESTs, Weakly similar to v-ral simian leukemia viral oncogene homolog B (ras	og B (ras
				related) [Rattus norvegicus] [R.norvegicus], v-ral simian leukemia viral oncogene	al oncogene
2426	70700	700000	::	homolog B (ras related), v-ral simian leukemia viral oncogene homolog B (ras	og B (ras
7430	V 12407	Z0421 NN  0338Z1	= 1	related; GTP binding protein)	
				ESTs, Weakly similar to 1607338A transcription factor BTF3a [H.sapiens], Mus	iens], Mus
				musculus, basic transcription factor 3, clone MGC:6799 IMAGE:2648048, mRNA,	048, mRNA,
107	7770	7000704		complete cds, RIKEN cDNA 1700054E11 gene, RIKEN cDNA 5730434103 gene,	34103 gene,
è	//43/A	7.43 AA646604	ž	basic transcription factor 3	
				ESTs, Weakly similar to 2019405A upstream regulator element-binding protein	ng protein
				[Rattus norvegicus] [R.norvegicus], Mus musculus, clone MGC:12070	
				IMAGE:3708271, mRNA, complete cds, RIKEN cDNA 1110018G07 gene, RIKEN	ene, RIKEN
				cDNA 2810411E22 gene, RIKEN cDNA 4432411E13 gene, RIKEN cDNA	NA
450	7000	7,00001	*	4930431E10 gene, expressed sequence AW212605, upstream regulatory element	atory element
7001	7007 W	2001 AIZ33011	3, 1	binding protein 1	•
25	14 100	70000		ESTs, Weakly similar to 2122252A Lasp-1 protein [H.sapiens], LIM and SH3 protein	nd SH3 protein
2177	CI SS	LEBUSO MINICIPA	aa, bb	1, RIKEN cDNA 1200007021 gene	-
				ESTs, Weakly similar to 2204387A peroxisome assembly factor 2 [Rattus	ttus
				norvegicus] [R.norvegicus], ESTs, Weakly similar to TRANSITIONAL	
				ENDOPLASMIC RETICULUM ATPASE [M.musculus], RIKEN cDNA 4833413G10	1833413G10 ·
2404	- 6	207700		gene, expressed sequence A1195028, peroxisomal biogenesis factor 6, peroxisome	3, peroxisome
1047	818	CZI /CO MINIGIA	E :	biogenesis factor 1, valosin containing protein	

TABLE 3	٠. ۳	,			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
SEO		GenBank Acc		Marine Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Carlot Ca	Atty. Ref. 44921 5090-01-WO/2105485
<u></u>	GLGC ID No.	No.	Model Code Human H	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
1549		18444 AI234915	:=		ESTs, Weakly similar to A26882 ptL2 hypothetical protein - rat [R.norvegicus], ESTs, Weakly similar to AF191020 1 E2IG5 [H.sapiens], RIKEN cDNA 2310056P07 gene, RIKEN cDNA 9430073N08 gene, hypothetical protein, estradiol-induced
					ESTs, Weakly similar to A2M1_HUMAN Clathrin coat assembly protein AP50 (Clathrin coat associated protein AP50) (Plasma membrane adaptor AP-2 50 kDa protein) (HA2 50 kDa subunit) (Clathrin assembly protein complex 2 medium chain)
2439		16099 NM_053837	f, r, cc, dd		(AP-2 mu 2 chain) [R.norvegicus], adaptor protein complex AP-1, mu 2 subunit, adaptor protein complex AP-2, mu1, adaptor-related protein complex 1, mu 2 subunit, adaptor-related protein complex 2, mu 1 subunit, adaptor-related protein
106		17997 AA800671	ם		ESTs, Weakly similar to A54854 Ras GTPase activating protein-related protein III Saniens
					ESTS, Weakly similar to A55190 transitional endoplasmic reticulum ATPase (EC 3.6.1) [validated] - rat [R.norvegicus], ESTs, Weakly similar to TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE [M.musculus], Homo sapiens
2445		18357 NM 053864	C		spermatogenesis associated factor (SPAF) mRNA, complete cds, RIKEN cDNA 4833413G10 gene, RIKEN cDNA 4933439B08 gene, expressed sequence Al195026, katanin p60 (ATPase-containing) subunit A1, nuclear VCP-like, peroxisome biogenesis factor 1, spermatogenesis associated factor, valosin
2108		695 NM_022388	n, v		containing protein, valosin-containing protein ESTs, Weakly similar to A55571 chloride conductance inducer Mat-8 [H.sapiens], FXYD domain-containing ion transport regulator 3, FXYD domain-containing ion transport regulator 4.
2112	1	23061 NM_022394	ý,		ESTs, Weakly similar to A55817 cyclin-dependent kinase p130-PITSLRE - mouse [M.musculus], RIKEN cDNA 2600011L02 gene, RIKEN cDNA A930036K24 gene, aldehyde dehydrogenase family 5, subfamily A1, cell division cycle 2 homolog (S. pombe)-like 2, expressed sequence Al255170, scaffold attachment factor B.

Human Homologous Sequence Cluster Title  ESTS, Weakly similar to ADT1 MOUSE ADP  HEART/SKELETAL MUSCLE ISOFORM T1  to RIKEN cDNA 17000660505 gene, clone M  complete cds, RIKEN cDNA 1700034.06 gen  (mitochondrial carrier, Aralar), member 12, s  carrier, adenine nucleotide translocator), me  ESTS, Weakly similar to AMPE MOUSE GLL  [M.musculus], aminopeptidase puromycin seg  glutamyl aminopeptidase (aminopeptidase A  ESTS, Weakly similar to ATDA_HUMAN DIAI  [H.sapiens], RIKEN cDNA 2610016403 gene  acetyltransferase  ESTS, Weakly similar to BChain B, Crystal S  From The Human Snmp Core Domain [H.sap  ESTS, Weakly similar to BCN1_MOUSE Beci  interacting protein) [M.musculus], RIKEN cDN  gene, dyskeratosis congenita 1, dyskerin  ESTS, Weakly similar to C35826 hypothetical  protein, brain expressed X-linked 2, nerve gra  associated protein 1, reduced expression 3  ESTS, Weakly similar to caseln kinase [M.muy  gene, RIKEN cDNA 3300002KO7 gene, VRK3  kinase 1, alpha 1, casein kinase [M.muy  gene, RIKEN cDNA 3300002KO7 gene, VRK3  kinase 1, alpha 1, casein kinase 1, delta, case  ESTS, Weakly similar to CATZ_HUMAN Cath  (Cathepsin P) [H.sapiens], cathepsin Z, expre	TABL	E3			
19053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   aa, bb   15053 D12770   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_053401   b, c   15077 NM_	SEO		GenBank Acc.		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
19053 D12770 aa, bb 6263 NM_022251 jj, kk 15061 A1236332 z, ee, ff 16438 A176294 cc, dd 19326 NM_133419 u, v, jj, kk 16017 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053102 b, l, m	₽	GLGC ID	No.	Model Code	lomologous Known Gene Name
19053 D12770 aa, bb 6263 NM_022251 jj, kk 15051 A1236332 z, ee, ff 16438 A1176294 cc, dd 19326 NM_133419 u, v, jj, kk 16017 NM_053401 o, aa 16018 NM_053401 b, c 16018 NM_053401 b, c 16018 NM_053402 b, l, m					ESTs, Weakly similar to ADT1 MOUSE ADP, ATP CARRIER PROTEIN,
19053 D12770 aa, bb  6263 NM_022251 jj, kk  15051 Al236332 z, ee, ff  16438 Al176294 cc, dd  19326 NM_133419 u, v, jj, kk  16017 NM_053739 d, f, g  16017 NM_053401 o, aa  16018 NM_053401 b, c  23215 NM_023102 b, l, m  4491 AA818798 w, x				•	HEART/SKELETAL MUSCLE ISOFORM T1 [M.musculus], Mus musculus, Similar
19053 D12770 aa, bb 6263 NM_022251 jj, kk 15051 Al236332 z, ee, ff 16438 Al176294 cc, dd 19326 NM_133419 u, v, jj, kk 16017 NM_053739 d, f, g 16018 NM_053701 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x		-			to RIKEN cDNA 1700066C05 gene, clone MGC:28125 IMAGE:3980327, mRNA,
19053 D12770 aa, bb  6263 NM_022251 jj, kk 15051 Al236332 z, ee, ff 16438 Al176294 cc, dd 19326 NM_133419 u, v, jj, kk 16017 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053401 b, c 16018 NM_053401 b, c 16018 NM_053401 b, c		,			complete cds, RIKEN cDNA 1700034J06 gene, solute carrier family 25
6263 NM_022251 jj, kk 15051 AI236332 z, ee, ff 16438 AI176294 cc, dd 19326 NM_053739 d, f, g 16017 NM_053739 d, f, g	1654		07770	4	(mitochondrial carrier, Aralar), member 12, solute carrier family 25 (mitochondrial
6263 NM_022251 ji, kk p, q, y, 15051 Al236332 z, ee, ff 16438 Al176294 co, dd 15269 NM_133419 u, v, ji, kk 16017 NM_053739 d, f, g 16017 NM_053739 d, f, g 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018 NM_053401 b, c p 16018	3		0.141.0	aa, un	carrier; adenine nucleotide translocator), member 4
15051 AIZ36332 Z, ee, ff 16438 AIT76294 cc, dd 19326 NM_133419 u, v, jj, kk 16017 NM_053739 d, f, g 16018 NM_053701 o, aa 16018 NM_053702 b, l, m 4491 AA818798 w, x			-		ESTs, Weakly similar to AMPE MOUSE GLUTAMYL AMINOPEPTIDASE
15051 AI236332	2700		NIM COSSES	3	[M.musculus], aminopeptidase puromycin sensitive, glutamyl aminopeptidase,
15051 AI236332	4		1 CZZZO   MINI	JI, KK	glutamyl aminopeptidase (aminopeptidase A), puromycin-sensitive aminopeptidase
15051 AI236332					ESTs, Weakly similar to ATDA_HUMAN DIAMINE ACETYLTRANSFERASE
16438 A176294 cc, dd 16438 A176294 cc, dd 19326 NM_133419 u, v, jj, kk 15269 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x	1676		000000	J. K. P. Q. Y.	[H.sapiens], RIKEN cDNA 2610016A03 gene, spermidine/spermine N1-
16438 AI176294 cc, dd  19326 NM_133419 u, v, jj, kk  15269 NM_053739 d, f, g  16017 NM_053401 o, aa  16018 NM_053401 b, c  23215 NM_023102 b, l, m  4491 AA818798 w, x	13/3		AI235332	z, ee, ff	acetyltransferase
19326 NM_133419 u, v, jj, kk 15269 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053401 b, c			7000		ESTs, Weakly similar to B Chain B, Crystal Structure Of The D1d2 Sub-Complex
19326 NM_133419	1322		AI1/6294	8,	From The Human Snmp Core Domain [H.sapiens]
19326 NM_133419					ESTs, Weakly similar to B41182 collagen alpha 1(ii) chain precursor [M.musculus],
15269 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m	0540		AIN 400440	:	PUMA/JFY1 protein, RIKEN cDNA 4933407C03 gene, RIKEN cDNA 5730512J02
15269 NM_053739 d, f, g 16017 NM_053401 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m	200	-	INIM_133419	u, v, JJ, KK	gene, dyskeratosis congenita 1, dyskerin
16269 NM_053739 d, f, g  16017 NM_053401 o, aa  16018 NM_053401 b, c  23215 NM_023102 b, l, m				-	ESTs, Weakly similar to BCN1_MOUSE Beolin 1 (Coiled-coil myosin-like BCL2-
15269 NM_053401					Interacting protein) [M.musculus], RIKEN cDNA 4921513J16 gene, beclin 1 (coiled-
16017 NM_053401	0400		NIM 052720	· •	coil, myosin-like BCL2 interacting protein), beclin 1 (coiled-coil, myosin-like BCL2-
16017 NM_053401 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x	774.7	1	1002/38	a, r, g	interacting protein)
16017 NM_053401 o, aa 16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x					ESTs, Weakly similar to C35826 hypothetical 13K protein A [H.sapiens], X-linked
16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x	2270		NIN OF SACA		protein, brain expressed X-linked 2, nerve growth factor receptor (TNFRSF16)
16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x	4012	-	10400 MINI	o, aa	associated protein 1, reduced expression 3
16018 NM_053401 b, c 23215 NM_023102 b, l, m 4491 AA818798 w, x			,		ESTs, Weakly similar to C35826 hypothetical 13K protein A [H.sapiens], X-linked
23215 NM_023102 b, l, m 4491 AA818798 w, x	0200		707000		protein, brain expressed X-linked 2, nerve growth factor receptor (TNFRSF16)
23215 NM_023102 b, l, m 4491 AA818798 w, x	6767	-	NIM UD34U1	၁ 'q	associated protein 1, reduced expression 3
23215 NM_023102 b, 1, m 4491 AA818798 w, x					ESTs, Weakly similar to caseln kinase [M.musculus], RIKEN cDNA 2610208K14
4491 AA818798 w, x	2470		COPCCO MIN	ا - د	gene, RIKEN cDNA 3300002K07 gene, VRK3 for vaccinia related kinase 3, casein
4491 AA818798 w, x	6110		701 CZO 10Z	E '1 '0	kinase 1, alpha 1, casein kinase 1, delta, casein kinase 1, gamma 2
443 AA010/30 W, X	150		0 4 0 4 0 7 0 0	:	ESTs, Weakly similar to CATZ_HUMAN Cathepsin Z precursor (Cathepsin X)
	000		A4616/98	/w, ×	(Cathepsin P) [H.sapiens], cathepsin Z, expressed sequence AU019819

TABLE 3	٠				
SEO		GenBank Acc.			Ally. Ref. 44921-5090-01-WO/Z105485
<u>Q</u> .	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2,5		4400 0054404	1	ESTs, Weakly	ESTs, Weakly similar to CATZ_HUMAN Cathepsin Z precursor (Cathepsin X)
2 7		AA031104	u, o	(Cathepsin P)	(Cathepsin P) [H.saplens], cathepsin Z, expressed sequence AU019819
				ESTs, Weakly	ESTs, Weakly similar to COXG MOUSE CYTOCHROME C OXIDASE
9		A A D 4 B D 4 D	4	DOLYPEPTIC	POLYPEPTIDE VIB [M.musculus], Homo sapiens, hypothetical gene LOC125965,
0		20032 AA340040	uu	clone MGC:33	3640 IMAGE:4827471, mRNA, complete cds
				ESTS, Weakly	ESTs, Weakly similar to DHB4 MOUSE ESTRADIOL 17 BETA-DEHYDROGENASE
				4 [M.musculus	4 [M.musculus], ESTs, Weakly similar to DHB4_HUMAN ESTRADIOL 17 BETA-
				DEHYDROGE	DEHYDROGENASE 4 [H.sapiens], RIKEN cDNA 1110029G07 gene, RIKEN cDNA
3			:	1700010M22	1700010M22 gene, RIKEN cDNA 3110069K09 gene, hydroxysteroid (17-beta)
2182	- 1	250/0 NM_024392	=	dehydrogenase 4	se 4
				ESTS, Weakly	ESTs, Weakly similar to EGR2 MOUSE EARLY GROWTH RESPONSE PROTEIN 2
				[M:musculus],	[M.musculus], MYC-associated zinc finger protein (purine-binding transcription
-			;	factor), early g	actor), early growth response 2, early growth response 2 (Krox-20 homolog,
2413		85 / NM_053633	y, z, ee, ff	Drosophila)	
				ESTs, Weakly	ESTs, Weakly similar to ELS MOUSE ELASTIN PRECURSOR (M.musculus),
000			:	RIKEN cDNA	RIKEN cDNA 4930554K12 gene, elastin, elastin (supravalvular aortic stenosis,
200		1/136 J04035	f, aa, bb	(Williams-Beuren syndrome)	en syndrome)
				ESTs, Weakly	ESTs, Weakly similar to FIBULIN-1, ISOFORM C PRECURSOR (M.musculus),
				Homo sapiens	Homo sapiens cDNA FLJ23816 fis, clone HSI02685, Homo sapiens cDNA
				FLJ32009 fis, a	FLJ32009 fis, clone NT2RP7009498, weakly similar to FIBULIN-1, ISOFORM A
010	9			PRECURSOR	PRECURSOR, Mus musculus mRNA for CRTAC1-B protein (CRTAC1 gene),
2/0	74135/	24135/AA95//36	u, o	RIKEN CDNA	RIKEN cDNA 5730592L21 gene, fibulin 5
				ESTs, Weakly	ESTs, Weakly similar to FMOD_HUMAN FIBROMODULIN PRECURSOR
	<del></del>			[H.sapiens], fib	[H.sapiens], fibromodulin, fibronectin leucine rich transmembrane protein 1,
0	1			fibronectin leuc	fibronectin leucine rich transmembrane protein 2, fibronectin leucine rich
2498	73251	73551 NN 080698		transmembran	transmembrane protein 3, hypothetical protein FLJ23447
2		000000		ESTs, Weakly	ESTs, Weakly similar to FRP MOUSE FOLLISTATIN-RELATED PROTEIN
)   	177QC1	13622 NIM_U24369	<b>1</b> , g	PRECURSOR	PRECURSOR [M.musculus], follistatin-like, follistatin-like 1
200	10001	000700		ESTs, Weakly	ESTs, Weakly similar to FRP MOUSE FOLLISTATIN-RELATED PROTEIN
7120	10001	13023 NINI_024369		PRECURSOR	PRECURSOR [M.musculus], follistatin-like, follistatin-like 1

TABLE 3	3		T. S.	の経過できる。	STEEL CHAIN TO GOOD FOOM FOO WHY
SEO		GenBank Acc.	,		
Ω	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
			·		ESTs, Weakly similar to GPV_RAT Platelet glycoprotein V precursor (GPV) (CD42D) [R.norvegicus], Platelete glycoprotein 5, RIKEN cDNA 1300018K11 gene, RIKEN cDNA 5430427N11 gene
1177	7122,	7122 AI137468	88		carboxypeptidase N, polypeptide 2, 83kD, glycoprotein 5 (platelet), glycoprotein V (platelet), hypothetical protein FLJ12568, leucine-rich alpha-2-glycoprotein
					ESTs, Weakly similar to GTP_RAT Glutathione S-transferase P (GST 7-7) (Chain 7)
2639	;	20818 X02904	:=		(GST class-pi) [R.norvegicus], Mus musculus, clone MGC:37914 IMAGE:5102505, IMRNA, complete cds, glutathione S-transferase pi, glutathione S-transferase, pi 2
					ESTs, Weakly similar to GUANINE NUCLEOTIDE DISSOCIATION STIMI!! ATOR
					RALGDS FORM A [M.musculus], ESTs, Weakly similar to T12453 hypothetical
					protein DKFZp564D2123.1 [H.sapiens], RIKEN cDNA 1300003D20 gene, RIKEN CDNA 4930573C08 gene, RIKEN
2048	18761	18761 NM_019250	aa		stimulator, rai guanine nucleotide dissociation stimulator, rilike 1
05.43	24	700007			ESTs, Weakly similar to guanine nucleotide regulatory protein [H.sapiens], Rho
6767	10//6	9//5 NM_139334	O		guanine nucleotide exchange factor (GEF) 5
					ESTs, Weakly similar to HOMEOBOX PROTEIN HOX-A2 [M.musculus], even
1752	1708	1708 NM 012581	:=		skipped homeolic gene 2 homolog, expressed sequence Al894218, homeo box
					FSTs. Weakly similar to HOMEOBOY BDOTTEIN DOY AS IN
					Skipped homeotic gene 2 homolog, expressed sequence Al894218, homeo box
1752	1709	1709 NM_012581	E,		A11, homeo box A2, homeo box B2
					ESTs, Weakly similar to 156519 taipoxin-associated calcium binding protein-49
					precursor - rat [R.norvegicus], Homo sapiens cDNA FLJ14474 fis, clone
97.7	. 000	0007001			MAMMA1001256, calumenin, reticulocalbin 1, EF-hand calcium binding domain,
1040	/200/	/buz/AJUU1929	t, aa		reticulocalbin 2, reticulocalbin 2, EF-hand calcium binding domain
					ESTS, Weakly similar to IM7A_RAT Mitochondrial import inner membrane
					translocase subunit TIM17 A [R.norvegicus], translocase of inner mitochondrial
7	1		:		membrane 17 homolog A (yeast), translocase of inner mitochondrial membrane 17
/41	11/45/	11/45/AB006450	nn, j., ĸĶ		homolog B (yeast), translocator of inner mitochondrial membrane 17 kDa, a

Model Code Human Homologous Known, Gene Name  ESTS, Weakty similar to IMPORTIN AL (importin) alpha 2, karyopherin (import happen) alpha 4, karyopherin alpha 2 (RAG cohort 1, importin) alpha 2, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 2 (RAG cohort 1, importin) alpha 6, karyopherin alpha 2 (RAG cohort 1, importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 2 (RAG cohort 1, importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, karyopherin alpha 4 (importin) alpha 6, sialytransferase 5, sialytransferase 5, sialytransferase 5, sialytransferase 5, sialytransferase 7 ((alpha-N-acetylneugalactosyt-1, 3)-N-acetylneugalactosyt-1, sialytransferase 7 (alpha-N-acetylneugalactosyt-1, sialytransferase, sialytransferase 7 (alpha-N-acetylneugalactosyt-1, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferase, sialytransferas	TABLE	33			《 · · · · · · · · · · · · · · · · · · ·	AMONO CANADA SAN Ref A4091-5000_01 AMONO CANADA SAN Ref
15556 NM_053483 k/k 16683 NM_031695 s 6281 AA819517 hh 187 NM_012903 r 187 NM_012903 r	SEO		GenBank Acc.			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
16688 A1178751 ii ii ii ii ii ii ii ii ii ii ii ii ii	₽	GLGC ID	No.	Model Code	Human Homologous Known Gene Name	Homologous Sequence Cluster Title
16668 A178751 ii					ESTS, V (importii	Weakly similar to IMPORTIN ALPHA-2 SUBUNIT [M.musculus], karyopherin
16668 A178751 ii					karyoph	) apria 2, na Jobriani (miporini) apria 3, na Jobriani (miporini) apria 4, perin alpha 2 (RAG cohort 1, importin alpha 1). Karyopherin alpha 3 (importin
16668 A178751 ii				:	alpha 4)	), karyopherin alpha 4 (importin alpha 3), karyopherin alpha 5 (importin
16668 A178751 ii 16663 NM_031695 s 6281 AA819517 hh 5953 A1771231 s, t	7385		NM 053483	춪	alpha 6)	
16663 MM_031695 s 6281 AA819517 hh 5953 A171231 s, t					ESIS, W	Weakly similar to JC5251 beta-galactoside alpha-2,3-sialyltransterase
16663 MM_031695 s 6281 AA819517 hh 65953 A1771231 s, t					[H.sapie	ans], sialyltransferase, sialyltransferase 4A (beta-galactosidase alpha-2,3-
16668 AI178751 ii 16663 NM_031695 s 6281 AA819517 hh 5953 AI171231 s, t					sialytran	nsferase), sialytransferase 4B (beta-galactosidase alpha-2,3-
16668 AI178751 ii 16663 NM_031695 s 6281 AA819517 hh 5963 AI171231 s, t					sialytran	ısferase), sialyltransferase 5, sialyltransferase 7 ((alpha-N-acetylneuraminyl
16668 A178751 ii 16663 NM_031695 s 6281 AA819517 hh 5953 A177231 s, t					2,3-beta	a-galactosyl-1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase) A,
16668 A178751 ii 16663 NM_031695 s 6281 AA819517 hh 5953 A177231 s, t					sialyltrar	nsferase 7 ((alpha-N-acetylneuraminyl 2,3-beta-galactosyl-1,3)-N-acetyl
16663 NM_031695 s 6281 AA819517 hh 5953 A1771231 s, t					galactos	saminde alpha-2,6-sialyltransferase) B, sialyltransferase 7D ((alpha-N-
16663 NM_031695 s 6281 AA819517 hh 5953 A171231 s, t	,			:	acetylne	uraminyl-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-
16663 NM_031695 s 6281 AA819517 hh 5953 AI171231 s, t	138		AI178751		sialyltrar	nsferase)
16663 NM_031695 s 6281 AA819517 hh 5953 A1171231 s, t					ESIS, W	Veakly similar to JC5251 beta-galactoside alpha-2,3-sialyitransterase
16663 NM_031695 s 6281 AA819517 hh 5953 A1771231 s, t					eides:H]	ins], sialyltransferase, sialyltransferase 4A (beta-galactosidase alpha-2,3-
16663 NM_031695 s 6281 AA819517 hh 5953 A1171231 s, t			-		sialytran	Isferase), sialyltransferase 4B (beta-galactosidase alpha-2,3-
16663 NM_031695 s 6281 AA819517 hh 5953 AI171231 s, t					sialytran	Isferase), sialyltransferase 5, sialyltransferase 7 ((alpha-N-acetylneuraminyl
16663 NM_031695 s 6281 AA819517 hh 5953 A1171231 s, t					2,3-beta	-galactosyl-1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase) A,
16663 NM_031695 s 6281 AA819517 hh 5953 A1171231 s, t					sialyltran	nsferase 7 ((alpha-N-acetylneuraminyi 2,3-beta-galactosyl-1,3)-N-acetyl
16663 NM_031695 s 6281 AA819517 hh 5953 AI171231 s, t					galactos	aminde alpha-2,6-sialyltransferase) B, sialyltransferase 7D ((alpha-N-
6281 AA819517 hh 5953 AI171231 s, t	2242		NIM 02120E		acetylner	uraminyl-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-
6281 AA819517 hh 5953 AI171231 s, t 187 NM_012903 r	23		14141 02 1030	n	Sialyitran	Nsterase)
5953 AI171231 s, t 187 NM_012903 r	171	6084	A A 9 4 0 5 4 7	1	ESTS, W	leakly similar to JC5707 HYA22 protein [H.sapiens], hypothetical protein
5953 AI171231 s, t 187 NM_012903 r	-	020	11001000		BC010/C	36
5953 AI171231 s, t 187 NM_012903 r					W , S , O I	reakly similar to JC/328 amino acid transporter A1 [H.sapiens], Homo
3833 ALIT (231 S, t 187 NM_012903 r	1017		A1474004	-	sapiens	clone 24674 mRNA sequence, solute carrier family 38, member 1, solute
187 NM_012903  r	/+7		AII/ 1231	3, 1	carrier fa	amily 38, member 2
187 NM_012903  r					ESTS, W	leakly similar to LANP_RAT Leucine-rich acidic nuclear protein
187 NM_012903 r					[R.norvec	gicus], acidic (leucine-rich) nuclear phosphoprotein 32 family, member A,
107/1NM_012803	1047		20000	1	acidic nu	rclear phosphoprotein 32, cerebellar ataxia 3, hypothetical gene
	101		14IVI_012803		[MGC163	009, small nuclear ribonucleoprotein polypeptide A'

010		A		
3	GenBank Acc.			
	GLGC:ID No.	, ,	Model Code Human Homologous Known Gene Name Human Homologous Sequence Cluster Title	
	-		ESTs, Weakly similar to MM24_MOUSE MATRIX METALLOPROTEINASE-24 PRECURSOR (MMP-24) (MEMBRANE-TYPE MATRIX METALL OPROTEINASE 5)	PROTEINASE-24
	••••••		(MT-MMP 5) (MEMBRANE-TYPE-5 MATRIX METALLOPROTEINASE) (MT5-MMP)	TEINASE) (MT5-MMP)
2324	16003 NM 034757		(MMP-21) [M.musculus], matrix metalloproteinase 17, matrix metalloproteinase 19,	metalloproteinase 19,
		e, j, k, cc,	ESTs, Weakly similar to NRP1_HUMAN NEUROPILIN-1 PRECURSOR [H.sapiens]	CURSOR [H.sapiens],
747	1097 AF016296	dď, kk	neuropilin, neuropilin 1, platelet derived growth factor C	•
			ESTs, Weakly similar to P2X6 MOUSE P2X PURINOCEPTOR 6 [M.musculus],	R [M.musculus],
2	04040	::	purinergic receptor P2X, ligand-gated ion channel, 2, purinergic receptor P2X,	jic receptor P2X,
01.57	acasco_mini.alsi	S, t, II	ligano-gated ion channel, 5	1
			ESTS, Weakly Similar to PAR3 MOUSE PROTEINASE ACTIVATED RECEPTOR 3   IDDECTED M. Mineraling   Activation (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)   Mesometrial (2012)	ALED RECEPTOR 3
2450	753 NM 053897	4 4	i naconidimi i (milamini) receptionino factori (finamini) receptionino factori (milamini) receptionino factori	מרפוחוסו-וועם ו'
	10000	,	FSTs Weakly similar in PDK4 MOLISE (PVRITY DENASE	ROGENASE
	-			CURSOR
		e, n, o, p, q,	(PYRUVATE DEHYDROGENASE KINASE ISOFORM 4) [M.musoulus], pyruvate	nusculus), pyruvate
2392	15829 NM_053551	r, aa, bb	dehydrogenase kinase 4, pyruvate dehydrogenase kinase, isoenzyme 4	enzyme 4
			ESTS, Weakly similar to PK3G_RAT Phosphatidylinositol	nase CZ domain-
			containing gamma polypeptide (Phosphoinositide 3-Kinase-C2-gamma) (PtdIns-3-	2-gamma) (PtdIns-3-
			kinase C2 gamma) (PI3K-C2gamma) [R.norvegicus], Homo sapiens cDNA	apiens cDNA
			FLJ12591 fis, clone NT2RM4001313, moderately similar to	
			PHOSPHATIDYLINOSITOL 3-KINASE VPS34-LIKE (EC 2.7.1.137)	1.137),
			phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide,	polypeptide,
	_		phosphatidylinositol 3-kinase, catalytic, alpha polypeptide, phosphatidylinositol 4-	sphatidylinositol 4-
			kinase, catalytic, beta polypeptide, phosphoinositide-3-kinase, class 2, gamma	class 2, gamma
1665	1356 D83538	u, v	polypeptide	
			ESTs. Weakly similar to PSG1 MOUSE PROSTATIC SECRETORY	TORY
			GLYCOPROTEIN PRECURSOR [M.musculus], RIKEN cDNA 2310065D10 gene,	2310065D10 gene,
2593	12700 NM_152936	h, I	serine protease inhibitor, Kazal type 1, serine protease inhibitor, Kazal type 3	or, Kazal type 3

Human Homologous Sequence Cluster Title ESTs, Weakly similar to R11A_HUMAN Ras- (24KG) (YL8) [R.norvegicus], RAB11A, mem member RAS oncogene family, RAB25, mer sequence AW496496 ESTs, Weakly similar to R6RT37 ribosomal prosenter L37 ESTs, Weakly similar to R6RT37 ribosomal prosenter L37 ESTs, Weakly similar to R6RT37 ribosomal prosenter L37 ESTs, Weakly similar to R6RT37 ribosomal prosenter L37 ESTs, Weakly similar to RBM3 MOUSE PUT [M.musculus], Mus musculus adult male tong library, clone:2310074E15:RNA binding motif protein dinducible RNA-binding protein ESTs, Weakly similar to RL34_HUMAN 605 [R.novegicus], RIKEN cDNA 110000112.get ESTs, Weakly similar to RDD_KAT Heteroget (hnRNP D0) (AU-rich element RNA-binding protein D-life E5. musashi homolog 2 (Drosophila) ESTs, Weakly similar to RRM1_HUMAN PUT METHYLTRANSFERASE 1 [H.sapiens], FtsJ ESTs, Weakly similar to S105_MOUSE S100 protein) [R.novegicus], S100 calcium binding protein A (calizzarin), S100 calcium binding protein P, SA126795	TABLE	3			18.3 18.3 18.3	100	16	1 1000	Afty Def ANDO FOOD MANA Last MADO FOOD MANAGED ANDO A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANAGED AND A STAND MANA
239 NM_031152 e	SEO		GenBank Acc.				W.V.		THE CALL STATES ASSESSED A
239 NM_031152 e  20807 NM_031106 f, g  7299 AI013911 t  9412 AI230691 f, g  23390 AI172328 e  10070 AI058505 u, v  2211 AA963834 l, m	ē	GLGC ID	No.	Model Code	Human	lous Known Gene	Name		Human Homologous Sequence Cluster Title
239 NM_031152 e  20807 NM_031106 f, g  7299 Al013911 t  9412 Al230691 f, g  23390 A1172328 e  10070 Al058505 u, v  2211 AA963834 l, m									ESTs, Weakly similar to R11A_HUMAN Ras-related protein Rab-11A (RAB-11)
239 NM_031152									(24KG) (YL8) [R.norvegicus], RAB11A, member RAS oncogene family, RAB11a,
20807 NIM_031106 f, g  7239 AI013911 t  9412 AI230691 f, g  10070 AI058505 u, v  2211 AA963834 l, m  1473 AI228548 aa	2264		NM_031152	Ө					member KAS oncogene family, RAB25, member RAS oncogene family, expressed sequence AW496496
20807 NIM_031106 f, g 7299 AI013911 t 9412 AI230691 f, g 23390 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m									ESTs, Weakly similar to R6RT37 ribosomal protein L37, cytosolic [validated] - rat
7299 AI013911 t 9412 AI230691 f, g 23390 A1172328 e 10070 AI058505 u, v 2211 AA963834 l, m	2241	20807	NM 031106	ĵ.	****				[R.norvegicus], RIKEN cDNA 1500002F19 gene, RIKEN cDNA 3110005M08 gene, ribosomal protein 1 37
7299 Al013911 t  9412 Al228505									ESTS, Weakly similar to RBM3 MOUSE PUTATIVE RNA-BINDING PROTEIN 3
7299 Ai013911 t  9412 Ai230691 f, g  23390 Ai172328 e  10070 Ai058505 u, v  2211 AA963834 i, m									[M.musculus], Mus musculus adult maie tongue cDNA, RIKEN full-length enriched
7299 AI013911 t  9412 AI230691 f, g  23390 A172328 e  10070 AI058505 u, v  2211 AA963834 i, m	•								library, clone:2310074E15:RNA binding motif protein 3, full insert sequence, RNA
7299 AI013911 t  9412 AI230691 f, g  23390 AI172328 e  10070 AI058505 u, v  2211 AA963834 l, m									binding motif protein 3, RNA binding motif protein, X chromosome, RNA binding
23390 AI172328	6	i							motif protein, X chromosome retrogene, cold inducible RNA binding protein, cold
9412 AI230691 f, g 23380 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m 1473 AI228548 aa	88	667/	Al013911						inducible RNA-binding protein
23390 A172328									ESTs, Weakly similar to RL34_HUMAN 60S RIBOSOMAL PROTEIN L34
23390 A1172328 e e 10070 A1058505 u, v 2211 AA963834 l, m 1473 A1228548 aa									[H.sapiens], ESTs, Weakly similar to RL34_RAT 60S RIBOSOMAL PROTEIN L34
23390 A1172328 e 10070 A1058505 u, v 2211 AA963834 l, m 1473 A1228548 aa	1462	9412/	AI230691	f, g					R.norvegicus], RIKEN cDNA 1100001122 gene, ribosomal protein L34
23390 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m 1473 AI228548 aa									ESTs, Weakly similar to ROD_RAT Heterogeneous nuclear ribonucleoprotein D0
23390 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m 1473 AI228548 aa									(hnRNP D0) (AU-rich element RNA-binding protein 1) [R.norvegicus], Mus
23390 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m 1473 AI228548 aa									musculus, clone MGC:36467 IMAGE:5359082, mRNA, complete cds, RIKEN cDNA
23390 AI172328 e 10070 AI058505 u, v 2211 AA963834 l, m 1473 AI228548 aa									4933434H11 gene, heterogeneous nuclear ribonucleoprotein D, heterogeneous
23390 A172328 e									nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kD),
2233U A1172328 e e 10070 A1058505 u, v 2211 AA963834 l, m 1473 A1228548 aa	,	0							heterogeneous nuclear ribonucleoprotein D-like, high-glycine/tyrosine protein type I
10070 Al058505 u, v 2211 AA963834 l, m 1473 Al228548 aa	787	23380/	AI1/2328	ø				_	=5, musashi homolog 2 (Drosophila)
100/U ANJSSSUS	Š	70010	10101						ESTs, Weakly similar to RRM1_HUMAN PUTATIVE RIBOSOMAL RNA
2211 AA963834 I, m 1473 AI228548 aa	33	10/20	Aidagada	u, v					METHYLTRANSFERASE 1 [H.sapiens], FtsJ homolog 2 (E. coli)
2211 AA953834 i, m 1473 A1228548 aa	è	. 3							ESTs, Weakly similar to S105_MOUSE S100 calcium-binding protein A5 (S-100D
1473 Al228548 aa	8	7711/	AA963834	Ε,					protein) [R.norvegicus], S100 calcium binding protein A5
1473,A1228548 aa								<u> </u>	ESTs, Weakly similar to S10A MOUSE S-100 PROTEIN, ALPHA CHAIN
1473 AI228548 aa	•	_						<u> </u>	[M.musculus], S100 calcium binding protein A1, S100 calcium binding protein A11
147.0/A/1Z60946 aa	6677	7,73	07100014						(calizzarin), S100 calcium binding protein P, S100Z protein, expressed sequence
	1433	14/उ जि	41228348	aa				,	1/266795

TABLE 3	3			A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	Attv. Ref. 44921-5090-01-WO/2105485
ე ე	GLGC ID No.	GenBank Acc. No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2342		1475 NM_031971	a, p, q, ee, ff		ESTs, Weakly similar to S10A MOUSE S-100 PROTEIN, ALPHA CHAIN [M.musculus], S100 calcium binding protein A11 (calizzarin), S100 calcium binding protein P, S100Z protein, expressed sequence A1266795
391	11992	11992 AA892485	4-		ESTs, Weakly similar to S21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529008 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2, pyruvate dehydrogenase complex, component X
1653	5049	5049 D10655	g, w, cc, dd, jj, kk		ESTs, Weakly similar to S21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, ilpoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529008 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2, pyruvate dehydrogenase complex, component X
1653	20201	5050 D10655	ئ ي دى وي م		ESTs, Weakly similar to \$21766 dihydrolipoamide S-acetyltransferase (EC 2.3.1.12) - rat (fragment) [R.norvegicus], Mus musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, lipoyl-containing component X; E3-binding protein, RIKEN cDNA 1600017E01 gene, RIKEN cDNA 4930529008 gene, dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease), dihydrolipoamide branched chain transacylase E2 pyruyate dehydronenase complex.
2225	15957	15957 NM_031050	i= o		ESTs, Weakly similar to S52284 lumicon, secretory intersticial proteoglycan precursor - rat [R.norvegicus], dermatan sulfate proteoglycan 3, dermatan sulphate proteoglycan 3, lumican

TABLE	TABLE 3	The state of the state of	THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE 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₽	GLGC ID	ID No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					ESTs, Weakly similar to S53358 ubiquitin-conjugating enzyme E2.17kB - rat [R.norvegicus], RIKEN cDNA 1100001F19 gene, RIKEN cDNA 1600028177 gene.
					prefoldin 5, ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast), ubiquitin-
756		2947 AF099093	^ I		conjugating enzyme E2D 3 (homologous to yeast UBC4/5), ubiquitin-conjugating
					ESTs Weakly similar to SS3880 cycleine-rich protein - rat IB population I DIVEN
1953	Ì	13392 NM_017148	Ф		CDNA 0610025L06 gene, cysteine and glycine-rich protein 1, cysteine rich protein
					ESTs, Weakly similar to T12483 hypothetical protein DKFZp564B0769.1
i		1			[H.sapiens], Homo sapiens, clone MGC:16721 IMAGE:4128659, mRNA, complete
5 5		3997 AA925771	=		cds, KIAA1604 protein, SR rich protein
					ESTs, Weakly similar to T46332 hypothetical protein DKFZp434H0413.1
					[H.sapiens], Homo sapiens, clone MGC:9709 IMAGE:3850147; mRNA, complete
					cds, KIAA1253 protein, expressed sequence AW121759, expressed sequence
29	`	18226 AA799641	_		C86123
					ESTs, Weakly similar to TGR3_HUMAN TGF-BETA RECEPTOR TYPE III
					PRECURSOR [H.sapiens], Homo sapiens cDNA FLJ33157 fis, clone
722		2757 AA997851	pp' II		UTERU2000393, endoglin
					ESTS, Weakly similar to TIE1 MOUSE TYROSINE-PROTEIN KINASE RECEPTOR
					TIE-1 PRECURSOR IM musculus], Homo sapiens cDNA: FLJ23028 fis. clone
					LNG01852, highly similar to HSU08023 Human cellular proto-oncodene (r-mer)
			-		mRNA, RYK receptor-like tyrosine kinase, c-mer proto-oncogene tyrosine kinase,
					receptor-like tyrosine kinase, tyrosine kinase receptor 1, tyrosine kinase with
902		3625 AI028954			immunoglobulin and epidermal growth factor homology domains
,					ESTs, Weakly similar to TMOD.MOUSE TROPOMODULIN [M.musculus], leiomodin
7071	-	11696 AI1/1//4	J, KK		2 (cardiac), tropomodulin
					ESTs, Weakly similar to TRANSITIONAL ENDOPLASMIC RETICULUM ATPASE
					[M.musculus], Homo sapiens spermatogenesis associated factor (SPAF) mRNA,
					complete cds, RIKEN cDNA 4833413G10 gene, RIKEN cDNA 4933439B08 gene,
					expressed sequence Al195026, katanin p60 (ATPase-containing) subunit A1,
1496		7036 41231801			nuclear VCP-like, peroxisome biogenesis factor 1, spermatogenesis associated
3		11201001	20, 00, 00,		liacioi, vaiosiii containing protein, vaiosin-containing protein

TABLE 3	3	* * * * * * * * * * * * * * * * * * * *		Atty. Res	Attv. Ref: 44921-5090-01-WO/2105485
SEQ ID	GLGC ID No.	GenBank Acc. No.	Model Code Human	Homologous Known Gene Name Hilman Homologous Seginators Chiefer Tille	
	:				
2470		17431 NM 05400B	Ę	ES1s, Weakly similar to UNR PROTEIN [K.norvegicus], Mus musculus, clone	ij, Mus musculus, clone
25	ı	000t00-	, dd	INICC.181/4 INIAGE:4224465, MKINA, COMPIETE COS, NKAS-Felated gene	KAS-related gene
	,			ESTs, Weakly similar to VAM5_HUMAN VESICULE-ASSOCIATED MEMBRANE	SSOCIATED MEMBRANE
				PROTEIN 5 (VAMP-5) (MYOBREVIN) (HSPC191) [H.sapiens], vesicle-associated	sapiens], vesicle-associated
2394		11843 NM_053555	n, o, s	membrane protein 5, vesicle-associated membrane protein 5 (myobrevin)	otein 5 (myobrevin)
				ESTS, Weakly similar to WEE1 MOUSE WEE1-LIKE PROTEIN KINASE	ROTEIN KINASE
				[M.musculus], NIMA (never in mitosis gene a)-related expressed kinase 4,	expressed kinase 4,
30			-	eukaryotic translation initiation factor 2 alpha kinase 2, protein kinase, interferon-	protein kinase, interferon-
7007		52 NM_019335	Q	inducible double stranded RNA dependent	
1844		24718 NM_013003	<u>:=</u>	expressed sequence Al255394, phosphatidylethanolamine N-methyltransferase	nine N-methyltransferase
		;		expressed sequence Al323765, histocompatibility 2, class II antigen E alpha, major	ass II antigen E alpha, major
928		19257 AI030775	E	histocompatibility complex, class II, DR alpha	
				expressed sequence Al323765, histocompatibility 2, class II antigen E alpha, major	ass II antigen E alpha, major
1709	-	19255 M15562	O	histocompatibility complex, class II, DR alpha	
				expressed sequence AI323765, histocompatibility 2, class II antigen E alpha, major	ass II antigen E alpha, major
1709		19256 M15562	O	histocompatibility complex, class II, DR alpha	
1028	- 1	4967 AI070179	w, x	expressed sequence Al324845, glia maturation factor, gamma	gamma
2451	15706	15706 NM_053921	_	expressed sequence AI451906, peroxisomal biogenesis factor 12	is factor 12
				expressed sequence Al845868, histocompatibility 2, class II antigen A, beta 1,	ass II antigen A, beta 1,
	_			major histocompatibility complex, class II, DO beta, major histocompatibility	jor histocompatibility
1717		9223 M36151	O	complex, class II, DQ beta 1	
-				expressed sequence AL022645, expressed sequence C76690, small nuclear	C76690, small nuclear
738		16419 AA875102	q	ribonucleoprotein E, small nuclear ribonucleoprotein polypeptide E	lypeptide E
				expressed sequence AU022220, stearoyl-CoA desaturase (delta-9-desaturase),	ase (delta-9-desaturase),
3		320 AA819905	пп	stearoyl-Coenzyme A desaturase 1, stearoyl-coenzyme A desaturase 3	e A desaturase 3
128	_	11166 AA801346	o 'u	expressed sequence AU042020, plexin B1, plexin B2, plexin B3	olexin B3
2507	1809	1809 NM_130741	,- , K	expressed sequence AW212229, lipocalin 2 (oncogene 24p3)	24p3)
				expressed sequence AW259572, thyroid hormone receptor, alpha (erythroblastic	ptor, alpha (erythroblastic
2254		1816 NM_031134	E,	leukemia viral (v-erb-a) oncogene homolog, avian)	
8		16023 AA891872	w, ×	expressed sequence BB168308, nicotinamide nucleotide transhydrogenase	de transhydrogenase
1306		19004  41175875	44 44	fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5,	acid binding protein 5,
200		202	laa, nn	epidermai	

TABLE 3	3		3.5	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	Athir Bef Addod Fhan DAMANARABE
SEO		GenBank Acc.			
	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
-		1			fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5,
25		19005/AI175875			epidermal
		7	:		fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5,
132/		19006/AI176393	aa, bb, II		epidermal
			d, j, k, t, bb,		fatty acid binding protein 5 (psoriasis-associated), fatty acid binding protein 5,
2587		20740 NM_145878	gg, kk, II		epidermal
2004		24248 NM_017332	e, gg		fatty acid synthase, hypothetical protein FLJ20604
					Fc fragment of 1gG, low affinity llb, receptor for (CD32), Fc receptor, 1gG, low affinity
					lib, Mus musculus FCRL mRNA, complete cds, expressed sequence AI528646,
2676		16725 X73371	e, jj, kk		immunoglobulin superfamily receptor translocation associated 2
718		3250 AA997765	lı'ı'ı		fibrillin 1. fibrillin 1 (Marfan syndrome), fibrilin 2
585		21998 AA944398	66		fibulin 2
			a. o. d. v.		
			ee, ff, hh, jj,		
71		11530 AA799773	莱		filamin A. albha (actin binding protein 280)
			a, o, q, z, ff,		
71		11531 AA799773	hh, kk		filamin A, alpha (actin binding protein 280)
					FK506 binding protein 1A (12kD), FK506 binding protein 1a (12 kDa), FK506
					binding protein 2 (13 kDa), FK506 binding protein 2 (13kD), FK506 binding protein 4
1651		20519 C06598	aa, bb		(59 kDa), FK506 binding protein 5 (51 kDa)
844		AI012177	h, –		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
1170	`	13090 AI136977	cc, dd		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
1487		13092 AI231547	ij, kk		FK506 binding protein 4 (59kD), RIKEN cDNA 4930571K23 gene
1495		23165 AI231799	y, z		Friedreich ataxia region gene X123
1789	- 1	13731 NM_012755	B-q-		FYN oncogene related to SRC, FGR, YES, Fyn proto-oncogene
					FYVE zinc finger phosphatase, Mus musculus, clone IMAGE:3668035, mRNA,
					partial cds, Mus musculus, clone MGC:27983 IMAGE:3596732, mRNA, complete
828		13296 AI011020	=		cds, X-linked myotubular myopathy gene 1, myotubular myopathy 1
1241		12695 AI170948	q		G protein-coupled receptor

TABLE 3		; \$1	4 1	AMA Def MAD TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO THE SECOND TO	Atty Ref 44921-5000-01 WOV2105485
SEO	Ť	GenBank Acc.			-0000-012/W/O/Z 100400
: ;	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name Human Homologous Sequence Cluster Title	
				GA binding protein transcription factor, beta subunit 1 (53kD), GA binding protein	GA binding protein
				transcription factor, beta subunit 2 (47kD), Homo sapiens cDNA FLJ32449 fis, clone	IA FLJ32449 fis, clone
				SKMUS2001662, moderately similar to Oryctolagus cuniculus CARP mRNA, RIKEN	CARP mRNA, RIKEN
			;	CDNA 1700012M14 gene, RIKEN cDNA 4933432B13 gene, ankyrin repeat domain	nkyrin repeat domain
				2 (stretch responsive muscle), ankyrin repeat domain 5, cardiac ankyrin repeat	ac ankyrin repeat
3		18313 NIM_013220	a, KK	protein, cardiac responsive adriamycin protein	
7000				gap junction membrane channel protein alpha 4, gap junction protein, alpha 4, 37kD	protein, alpha 4, 37kD
1807	72440 F	25445 NM 021654		(connexin 37)	
912	74517	7451 AI029450	y, z	glutamyl-prolyl-tRNA synthetase	
7,000	16780 X62660	(62660	c, f, g	glutathione S-transferase A4, glutathione S-transferase, alpha 4	4
				Glycogen synthase 2 (liver), Mus musculus, clone MGC:29379 IMAGE:5051685,	9 IMAGE:5051685,
000	- 1			mRNA, complete cds, glycogen synthase 1 (muscle), glycogen synthase 1, muscle,	n synthase 1, muscle,
1232	11585/4	11585/AI1 /0502	_	glycogen synthase 3, brain	
2063	22675 N	22675 NM_019358	a, n, o, KK	glycoprotein 38, lung type-I cell membrane-associated glycoprotein	otein
1161	2296 A	1112979	w,×	GM2 ganglioside activator protein	
		:		GPI-anchored metastasis-associated protein homolog, plasminogen activator.	nogen activator.
2539	909	606 NM_134352	a, y, z	urokinase receptor, urokinase plasminogen activator receptor	
	•			GRB2-related adaptor protein, GRB2-related adaptor protein 2, SH3 domain protein	, SH3 domain protein
Š	000		-	3, Sh3 domain YSC-like 1, growth factor receptor bound protein 2, growth factor	n 2, growth factor
121	16852/A	16852 AA801130	l, r	receptor-bound protein 2, monocytic adaptor	,
				GRB2-related adaptor protein, GRB2-related adaptor protein 2, SH3 domain protein	, SH3 domain protein
7000	0000	070000	_	3, Sh3 domain YSC-like 1, growth factor receptor bound protein 2, growth factor	n 2, growth factor
P022	180231	18UZ3 NM_U3U846	ο	receptor-bound protein 2, monocytic adaptor	
C757	14184 N	14184 NM 031//6	쏫	guanine deaminase	
2325	14185IN	14185 NM_031776	조	guanine deaminase	
				guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide	activity polypeptide
1	1	100		2, guanine nucleotide binding protein, alpha inhibiting 2, guanine nucleotide binding	ne nucleotide binding
è	1288/ A	1588// AA8/5225	ө	protein, alpha inhibiting 3	
				guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide	activity polypeptide
202	1,5000	1 E000 A A 07E00E		2, guanine nucleotide binding protein, alpha inhibiting 2, guanine nucleotide binding	e nucleotide binding
200	Wloood:	A0/3223	e, 99	protein, alpha inhibiting 3	

TABLE 3	3				Ath, Ref 44091-5000.01.WO7105485
SEO		GenBank Acc			1. 4434 1-3030-0 1-440/2 103403
<u> </u>	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name Human Homologous Sequence Cluster Title	
2221		15886 NM_031035	r, bb, II	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2, guanine nucleotide binding protein, alpha inhibiting 2, guanine nucleotide binding protein, alpha inhibiting 3	inhibiting activity polypeptide 2, guanine nucleotide binding
		•		H2A histone family, member C, H2A histone family, member D, H2A histone family, member D, H2A histone family, member N, H2A	nember D, H2A histone family,
				histone family, member O, Homo sapiens, clone MGC:21597 IMAGE:4511035.	3:21597 IMAGE:4511035.
				mRNA, complete cds, Mus musculus, similar to H2A histone family, member O,	nistone family, member O,
1178		18943 AI137495	ס	clone MGC:36202 IMAGE:5055276, mRNA, complete cds, expressed sequence R75370	eds, expressed sequence
				H4 histone family, member D, H4 histone family, member H, H4 histone family,	ther H, H4 histone family,
				member I, H4 histone family, member J, H4 histone family, member K, Mus	amily, member K, Mus
		!		musculus, H4 histone family, member A, clone MGC:30488 IMAGE:4205460,	30488 IMAGE:4205460,
408		20065 AA892647	c, d, r	mRNA, complete cds, histone 4 protein	
				H4 histone family, member D, H4 histone family, member H, H4 histone family,	iber H, H4 histone family,
				member I, H4 histone family, member J, H4 histone family, member K, Mus	ımily, member K, Mus
-				musculus, H4 histone family, member A, clone MGC:30488 IMAGE:4205460,	30488 IMAGE:4205460,
2149	- 1	Z0506 NM_0Z2686	D	mRNA, complete cds, histone 4 protein	
				H4 histone family, member D, H4 histone family, member H, H4 histone family,	ber H, H4 histone family,
				member I, H4 histone family, member J, H4 histone family, member K, Mus	ımily, member K, Mus
				musculus, H4 histone family, member A, clone MGC:30488 IMAGE:4205460,	30488 IMAGE:4205460,
2149		8	ď, r	mRNA, complete cds, histone 4 protein	
1285	-		cc, dd	HCCA2 protein	
1270		9538 AI172097	Ε,		
			j, k, ee, ff, jj,		RIKEN cDNA 1700037B15
2493		NM_080399	ž	gene, clone MGC:9960 IMAGE:3877854, mRNA, complete cds	plete cds
2637	- 1	23282 U90725	£	high density lipoprotein binding protein (vigilin)	
2381	- 1		cc, dd	histone deacetylase 1, histone deacetylase 2, histone deacetylase 3	deacetylase 3
1471	8036	8036 AI230884	_	HMBA-inducible	
2534		OACO NIKA 422EOE	70	Homo sapiens cDNA FLJ12045 fis, clone HEMBB1001957, RIKEN cDNA	1957, RIKEN cDNA
1887				1200011N24 gene, optic atrophy 1 (autosomal dominant)	ant)
1321		12999 AI176276	n, i, p, q, y, z, gg	Homo sapiens cDNA FL112570 fis. clone NT2RM4000895	1895

SEO					
		GenBank Acc			AIIV. REI. 448Z1-5080-U1-WO/Z105485
ੂ	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
835		3941 Al011598	茶		Homo sapiens cDNA FLJ14042 fis, clone HEMBA1006038, weakly similar to LAMININ ALPHA-5 CHAIN, expressed sequence AA408762, expressed sequence AI853660, laminin, alpha 5
2556		17530 NM_138877	ii (o 'u		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
2556		17532 NM_138877	, i,		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
2556		25039 NM_138877	ee, ff		Homo sapiens cDNA FLJ14413 fis, clone HEMBA1004670, RIKEN cDNA 1500005G05 gene, cytochrome b5 reductase 1 (B5R.1), cytochrome b5 reductase b5R.2, diaphorase (NADH) (cytochrome b-5 reductase), diaphorase 1 (NADH)
727		3353 AA998053	:=		Homo sapiens cDNA FLJ14455 fis, clone HEMBB1001908, highly similar to Human monocytic leukaemia zinc finger protein (MOZ) mRNA zinc finger protein 200
2404		Z0896 NM_053592	- 't		Homo sapiens cDNA FL/25344 fis, clone TST01087, RIKEN cDNA 5031412i06
221	19159,	9159 AA851953	۱۵, ۷		Homo sapiens cDNA FLJ30862 fis, clone FEBRA2003675
2163		15697 NM_022939	<u>-</u>		Homo sapiens cDNA FLJ31164 fis, clone KIDNE1000104, weakly similar to SYNTAXIN 7, exoressed sequence Al 1041521, evotavin 12, evotavin 16, evotavin 17
309	`	15410 AA875268	jj, kk		Homo sapiens cDNA FLJ31499 fis, clone NT2NE2005441, weakly similar to SPLICEOSOME ASSOCIATED PROTFIN 49
887	22592	22592 AI013740	n, o, w, x		Homo sapiens cDNA FLJ31762 fis, clone NT2RI2007754, weakly similar to INTESTINAL MEMBRANE A4 PROTEIN, hypothetical protein BC010116, hypothetical protein BC013109
2673		602 X68101	ee, ff		Homo sapiens cDNA FLJ32122 fis, clone PEBLM1000144, moderately similar to Trg, KIAA1058 protein, erythroid differentiation regulator, expressed sequence A4959601, expressed sequence R75174

TABLE	3	1. 1. 1. 工程 建铁矿		Control of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STATE OF TAXOUR STA
SEQ		GenBank Acc.			
으	GLGC ID No.	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2571		22595 NM_139253	co, dd		Homo sapiens cDNA FLJ32237 fis, clone PLACE6004966, Human transposon-like element mRNA
					Homo sapiens cDNA FLJ32449 fis, clone SKMUS2001662, moderately similar to
					Oryctolagus cuniculus CARP mRNA, ankyrin repeat domain 2 (stretch responsive
1240		21284 AI170842	цh		muscle), ankyrin repeat domain 5, cardiac ankyrin repeat protein
1600		16340  A1638055			Homo sapiens cDNA FLJ32493 fis, clone SKNSH2000051, RNA binding motif
247		23340  AARSOS10	- - - - -		protein 9, tox-1 homolog (C. elegans)
	L	200000	- (1)		Homo sapiens CUNA FLJ329/1 its, clone I EST12008847
					Homo Sapiens CUNA: FLJ21251 fis, clone COL01259, Homo sapiens, Similar to activated p.71cdr424s kinaseclone MCC-45130 IMACE-4202300 TENA
1670		20456 H31144	<u>-</u>		Complete cds
					Homo sapiens cDNA: FLJ22783 fis, clone KAIA1993, Homo sapiens mRNA full
					length insert cDNA clone EUROIMAGE 703547, Homo sapiens mRNA; cDNA
888	`	15247 AI014169	aa, bb		DKFZp434B102 (from clone DKFZp434B102), KIAA1376 protein
					Homo sapiens mRNA for FLJ00083 protein, partial cds, RIKEN cDNA 2610312E17
					gene, RIKEN cDNA 2810047L02 gene, WD repeat domain 5, WD repeat domain
Ç			:		5B, glutamate rich WD repeat protein GRWD, hypothetical protein FLJ11848,
492		14/12/AA900860	ee' ff		peroxisome biogenesis factor 7, recombination protein REC14
					Homo sapiens mRNA; cDNA DKFZp434M2227 (from clone DKFZp434M2227),
					Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 6 alternative
Š		1000			splice variant, partial cds, RIKEN cDNA 2610028K12 gene, transferrin receptor,
1594		3615 AIZ3/645	-		transferrin receptor (p90, CD71), transferrin receptor 2
					Homo sapiens mRNA; cDNA DKFZp434M2227 (from clone DKFZp434M2227),
					Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 6 alternative
•	-				splice variant, partial cds, RIKEN cDNA 2610028K12 gene, transferrin receptor,
1/7.1	24844	24844 M58040	۱, ۷		transferrin receptor (p90, CD71), transferrin receptor 2
					Homo sapiens mRNA; cDNA DKFZp566P2324 (from clone DKFZp566P2324),
					Homo sapiens, clone MGC:21553 IMAGE:4155396, mRNA, complete cds,
1					KIAA0193 gene product, hypothetical protein BC002980, hypothetical protein
513		4917/AA924140	E.		FLJ23142
543		4285 AA925708	r, y, z, jj, kk		Homo sapiens PNAS-29 mRNA, complete cds, WD repeat domain 1

TABLE	رب ا	    -		TO SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SERVE STATES OF THE SER	SOF DONO DONO FOUNT FOR THE STATE OF SOME
SEO		GenBank Acc.			
₽	GLĠC ID No.	No.	Model Code Human F	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
					Homo sapiens PP1579 mRNA, complete cds, Mus musculus, clone MGC:6299
2569	- 1	18108 NM_139105	a, n, o, ll		INVACE. 2014341, III. III. IVA, corriptere cus, expressed sequence Awa40468, expressed sequence C80305, ribonuclease/andiodenin inhibitor
2169		9286 NM · 023027	Ε.		Homo sapiens, clone IMAGE:4096427, mRNA, partial cds, heterogeneous nuclear riboning experient D. ilko
					Homo sapiens, clone IMAGE:4245141, mRNA, RIKEN cDNA 1110051A18 gene,
1239		6982 A1170793	춫		deleted in colorectal carcinoma, myopalladin, palladin
1556		14722 AI235284	86		Homo sapiens, clone IMAGE:5001663, mRNA, partial cds, antigen identified by monoclonal antibodies 12E7, F21 and O13
	-				Homo sapiens, clone MGC:11072 IMAGE:3688606, mRNA, complete cds,
27.0		0000000	-		erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked), erythrocyte
0/0		44363260	5, [		protein band 4.1-like 2
		7.000	-		Homo sapiens, clone MGC:12617 IMAGE:2964706, mRNA, complete cds, cyclin
707	-	23347 AA86UUTD	aa, bb		M3, cyclin M4
1488	192/1	19271 AI231566	s, t		Homo sapiens, clone MGC:18164 IMAGE:4155088, mRNA, complete cds
0570		020007	•		Homo sapiens, clone MGC:19524 IMAGE:4329693, mRNA, complete cds, RIKEN
7/07	-	1003 MM 139230	υ i		cDNA 1110025H24 gene, mannosidase, alpha, class 2C, member 1
800	1	8665 AIU / 1965	ee, #		Homo sapiens, clone MGC:25063 IMAGE:4480702, mRNA, complete cds
2692	-	8664 Z75029	y, z, ee, ff		Homo sapiens, clone MGC:25063 IMAGE:4480702, mRNA, complete cds
,					Homo sapiens, clone MGC:26599 IMAGE:4828542, mRNA, complete cds, zinc
1486	8004	8004 AI231532	_		finger protein 183 (RING finger, C3HC4 type)
1592	11375	11375 AI237594	u, v		Homo sapiens, clone MGC:8769 IMAGE:3860953, mRNA, complete cds
	<u></u>				Homo sapiens, clone MGC:9645 IMAGE:3922910, mRNA, complete cds, RIKEN
2	0000	00000			cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein
7017	7000	ZUUD NIM UZZUSD	aa		FLJ11743, hypothetical protein FLJ22408
					Homo sapiens, clone MGC:9645 IMAGE:3922910, mRNA, complete cds, RIKEN
2	- 0000	00000			cDNA 2310063B19 gene, epoxide hydrolase 2, cytoplasmic, hypothetical protein
7017	70007	ZUUB INIM_UZZ936	w, x, aa, bb		FLJ11743, hypothetical protein FLJ22408
					Homo sapiens, Similar to RIKEN cDNA 4930513009 gene, clone MGC:33185
					IMAGE:5269882, mRNA, complete cds, Mus musculus, Similar to hypothetical
					protein DKFZp761J139, clone MGC:11924 IMAGE:3599595, mRNA, complete cds,
7770	- 0000		;	<del></del>	RIKEN cDNA 4930513009 gene, cellular nucleic acid binding protein, zinc finger
1 2	VIECEN7	080770 MIN	' n		protein 9 (a cellular retroviral nucleic acid binding protein)

TABLE 3	E 3,			19.44	14 14/O/040E40E
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.≘	GLGC ID No.	No.	Model Code	Model Code Human Homologous Known Gene Name.	
	~			Homo sapiens, Similar to RIKEN cDNA 4930513009 gene, clone MGC:33185	3C:33185
				IMAGE:5269882, mRNA, complete cds, Mus musculus, Similar to hypothetical	pothetical
				protein DKFZp761J139, clone MGC:11924 IMAGE:3599595, mRNA, complete cds,	complete cds,
24.6		O D C C C FRIA	1	RIKEN cDNA 4930513009 gene, cellular nucleic acid binding protein, zinc finger	1, zinc finger
7		ZUSOU ININI UZZOSK	C, e, r	protein 9 (a cellular retroviral nucleic acid binding protein)	
250		0 0 0		hypothetical protein BC008246, inorganic pyrophosphatase, pyrophosphatase	sphatase
8		1 ISOO AAAATAUU	III, J. KK	(inorganic)	
-		00000	,	hypothetical protein BC008246, inorganic pyrophosphatase, pyrophosphatase	sphatase
S	- 1	10120 AA831800	u, o	(inorganic)	-
123		21427 AA801181	cc, dd	hypothetical protein DKFZp564I0422, hypothetical protein FLJ23151	
				hypothetical protein DKFZp667O2416, hypothetical protein FLJ20984, leukocyte	4, leukocyte
				receptor cluster (LRC) member 4, zinc finger, DHHC domain containing 7, zinc	ng 7, zinc
2581		6731 NM_145096	þф	finger, DHHC domain containing 9	
487	_	4732 AA900343	င်, dd	hypothetical protein DKFZp761C169, hypothetical protein SP192	
378		22903 AA892250	þ	hypothetical protein FLJ10514	
1176		11238 AI137410	ee, ff	hypothetical protein FLJ12888	
716		21119 AA997655	q	hypothetical protein FLJ14566	
783		22801 AI009197	е	hypothetical protein IMAGE3455200	
430		3879 AA893237	9	hypothetical protein MBC3205	
427		17731 AA893194	c, f	hypothetical protein MGC10974	
99		20980 AA799633	<u>ا</u> ,	hypothetical protein MGC13016	
555		9942 AA942697	Р	hypothetical protein MGC3133	
535		23452 AA925289	gg	hypothetical protein MGC8974	
2200		17917 NM 024488	>	hypothetical protein, MGC:8303, likely ortholog of rat CDK5 activator-binding protein	binding protein
129		11995 AA801352		VOO	
305		1100A A A 807507	2 44		
3		10076040		Ilmmature colon carcinoma transcript 1	
178		18427 AA819891	5	Inositol 1,4,5-triphosphate receptor, type 1, ryanodine receptor 1 (skeletal), الترافية المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المتابعة المت	letal),
1720	1	-450G ME7770	99	iyanouna racapior i, skeietai muscie	
1700	1	07/1/01/1	2	inositol polyphosphate-5-phosphatase, 72 kDa	
06/-		15174 NM 012/56	E	insulin-like growth factor 2 receptor	
969		2492 AA964866	^ ii	interferon gamma receptor 2, interferon gamma receptor 2 (interferon gamma transferon gamma	gamma
			. [2]	juansandel 1)	

TABLE 3	3		12.64	Section 1	SOFT TO SOFT A MAY DAY AND A MADIA SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOFT TO SOF
SEO		GenBank Acc.			- Sections
Ω	GLGC ID	No.	Model Code Human	Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
2430		9059 NM_053783	j, k, kk		interferon gamma receptor, interferon gamma receptor 1
1893		20754 NM_013195	<u>0</u>		interleukin 2 receptor, beta, interleukin 2 receptor, beta chain, interleukin 21 receptor
1270		4070 A1470204			interleukin 2 receptor, gamma (severe combined immunodeficiency), interleukin 2
121.0		+007 117	2 2 2		receptor, gamma cnain
325		5384 AA891041	2, kk		Jun-B oncogene, jun B proto-oncogene
2090	- 1	20161 NM_021836	j, k, p, q, r		Jun-B oncogene, jun B proto-oncogene
2224		1731 NM_031047	<u>;;</u> 条		junction plakoglobin
1446		24117 AI229785	pp 'cc		keratin 19, keratin complex 1, acidic, gene 19
					KIAA0438 gene product, Mus musculus, clone IMAGE:3499845, mRNA, partial cds,
	-				goliath protein, hypothetical protein FLJ20552, hypothetical protein LOC51255,
Č					praja 1, praja1, RING-H2 motif containing, rotein carrying the RING-H2 sequence
533		17363 AA925150			motif, similar to RIKEN cDNA 1300002C13, zinc finger protein 364
2543		7164 NM_134406	jj, 秦		KIAA0602 protein, hypothetical protein FLJ20748
471	- 1	22490 AA899289	p		KIAA1049 protein
879		22493 AI013466	gc, dd		KIAA1049 protein
988		3445 AI013724	a		KIAA1052 protein, hypothetical protein FLJ13942
32	8289/	8289 AA799494	в		KIAA1075 protein, hypothetical protein FLJ14950, tumor endothelial marker 6
24			:		KIAA1348 protein, protein phosphatase 1G (formerly 2C), magnesium-dependent,
R/07	- 1	15/61 NM_145091	cc, dd, jj, KK		gamma isoform
					KIAA1453 protein, Mus musculus, Similar to ubiquitin specific protease 3, clone
	-				MGC:28886 IMAGE:4911201, mRNA, complete cds, RIKEN cDNA 4930511011
0.57	7 202	5505 0104 0467	:		gene, Vhlh-interacting deubiquitinating enzyme 1, ubiquitin specific protease 2,
ĝ	CACC	41012407	n, v		ubiquitin specific protease 20
-			:		KIAA1894 protein, pregnancy-associated plasma protein A, selectin P (granule
7/81	88	38 NM_013114	aa, bb		membrane protein 140kD, antigen CD62), selectin, platelet
2421	13622	13622 NM_053713	aa, bb, II		Kruppel-like factor 1 (erythroid), Kruppel-like factor 2 (lung), Kruppel-like factor 4 (nut)
					Krinnel-like factor 1 (enrthmid) Krinnel-like factor 9 (final) Krinnel-like factor 4
2421	22411	22411 NM_053713	ď, t		(gut)
2421	25379 N	25379 NM 053713	==		Kruppel-like factor 1 (erythroid), Kruppel-like factor 2 (lung), Kruppel-like factor 4
	10101	01 200 1	1, 1		(gui)

TABLE 3	₹3			· *-sán	DIOKOF AGE
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Ω	GLGC ID No.	No.	Model Code Human Hol	uman Homologous Known Gene Name Human Homologous Sequence Cluster Title	
202		19071 AA850524	يد	LBP protein 32, hypothetical protein FLJ13782, mammalian grainyhead, upstream binding protein 1	upstream
2095		20204 NM_022196	ee, ff, kk	leukemia inhibitory factor, leukemia inhibitory factor (cholinergic differentiation factor)	ation
1507		409 AI232268	<u>.                                    </u>	low density lipoprotein receptor-related protein associated protein 1, low density lipoprotein-related protein-associated protein 1 (alpha-2-macroglobulin receptor-associated protein 1)	density ceptor-
1589	L _ 1	21653 AI237535	a, j, k, p, q, y, z	LPS-induced TNF-alpha factor	
2624		21654 U53184	a, e, j, k, q, y, z, kk	LPS-induced TNF-alpha factor	
.880		12233 AI013474	y, z, ee, ff	lung alpha/beta hydrolase 2	
1022		8495 A1059971	a, t	lymphotoxin B receptor, lymphotoxin beta receptor (TNFR superfamily member 3)	ember 3)
				MADS box transcription enhancer factor 2, polypeptide A (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 2, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhancer factor 3, polypeptide C (myocyte enhance	icer factor nhancer
2206		16292 NM_030860	b, sd	enhancer factor 2D), who is transcription enhancer factor 2, polypeptide D (myocyte enhancer factor 2A, myocyte enhancer factor 2A, myocyte enhancer factor 2A, myocyte enhancer factor 2B, myocyte enhancer factor 2D.	ocyte for 2B,
2455		16654 NM_053963	n, o	matrix metalloproteinase 12, matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 26	astase),
1561		14642 AI235874	l''u	Microfibril-associated glycoprotein-2, expressed sequence AI893631, microfibrillar-associated protein 2	rofibrillar-
414	,	17923 AA892843	q	mitochondrial ribosomal protein L24	
227		12829 AA858695	gg	mitochondrial ribosomal protein S33	
1634		19152 AI639387	cc, dd	mitochondrial ribosomal protein S6	
				Mitogen activated protein kinase 12 (Zipper (leucine) protein kinase), integrin linked kinase kinase kinase kinase kinase ti	grin linked
82		16712 AA800015	Φ	mitogen activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase binase bi	ein kinase
			-	CI aspirit and a property of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	

Human Homologous Known Gene Name Human Homologous Sequence Cluster Title Mitogen activated protein kinase 12 (Zipper Rinase, integrin-linked kinase, mitogen activated protein kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase kinase ki	TABLE	3		Joseph Company	情况 · · · · · · · · · · · · · · · · · · ·	
16713   No.   Model Code   Humain Homologouis Known Gene Name   16713   No.   133409   b	SEO		GenBank Acc	L	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
17223 A17740 L, v 5095 NM_13434 L, v, gg 1463 NM_134384 L, v, gg 7050 AA891824 N, o	īĎ.	GLGC ID	No.		-	ıman Homologous Sequence Cluster Title
5095 NM_133409 b  6684 NM_053703 kk 21928 AA891302 b, l, m 12654 A1176140 r 21672 AA891789 f, g  6595 NM_134334 u, v, gg 7050 AA891824 n, o					Mit	Mitogen activated protein kinase 12 (Zipper (leucine) protein kinase), integrin linked kinase, integrin-linked kinase, mitogen activated protein kinase kinase kinase 11
21928 AA891302 kk 12654 A1137864 cc, dd 17223 A1176140 r 21672 AA891789 f, g 1463 NIM_134334 u, v, gg 7050 AA891824 n, o	2518	- 1	NM_133409	Ф	mit	mitogen activated protein kinase kinase kinase 12, mitogen-activated protein kinase kinase kinase 12, mitogen-activated protein kinase
5095 NM_053703 kk 12654 Al137864 cc, dd 17223 Al176140 r 21672 AA891789 f, g 5095 NM_147140 u, v 99 7050 AA891824 n, o					mit	mitogen activated protein kinase kinase 6, mitogen activated protein kinase kinase
5095 NM_134334	- 6				(, I King	mitogen-activated protein kinase kinase 3, mitogen-activated protein kinase iase 4, mitogen-activated protein kinase kinase 6 mitonen-activated protein
5095 NM_134334 U, v, gg 7050 AA891824 D, o o	2420	6684	NM_053703	支	kin	ase kinase 7
17223 AI176140	255	21928	AA891302	b, l, m	mili	logen-activated protein kinase kinase kinase 2
17223 AI176140 r 21672 AA891789 f, g 5095 NIM_147140 u, v 1463 NIM_134334 u, v, gg 7050 AA891824 n, o	7187	12024	AI137864	Sc, dd	OW	JRF-related gene 15
20225 NM_022198 b, 1, m	1316	17223	AI176140	<u> </u>	MC	MORF-related gene 15, RIKEN cDNA 1700060H10 gene, testis expressed gene
5095 NM_147140 u, v 1463 NM_134334 u, v, gg 7050 AA891824 n, o	355	21672	AA891789	f, g	CW	JRF-ralated name V
5095 NM_147140 u, v 1463 NM_134334 u, v, gg 7050 AA891824 n, o					Mus	s musculus 0 day neonate head cDNA. RIKEN full-length enriched lihrary
5095 NM_134334 u, v, gg 7050 AA891824 n, o					clor	clone:4833446O15:solute carrier family 35 (UDP-galactose transporter), member 2
5095 NM_147140 u, v 1463 NM_134334 u, v, gg 7050 AA891824 n, o						full insert sequence, Mus musculus, Similar to solute carrier family 35 (UDP-N-
5095 NM_134334 u, v, gg  7050 AA891824 n, o					ace	thiglucosamine (UDP-GlcNAc) transporter), member 3, clone MGC:36317
1463 NM_134334 u, v, gg 7050 AA891824 n, o	2588	5095	VM 147140	^	IMA	AGE:5150304, mRNA, complete cds, solute carrier family 35 (CMP-sialic acid
1463 NM_134334 u, v, gg 7050 AA891824 n, o				5	ıran	isporter), member 1
7050 AA891824 lu, v, gg					. clon	s musculus 10 day old male pancreas cDNA, RIKEN full-length enriched library, ne:1810054L16:kidnev-derived aspartic protease-like protein full insert
7050 AA891824 n, o 20225 NM_022198 b, I, m	7535	14631	M 134334	u, v, gg	ibas	uence, cathepsin D, cathepsin D (lysosomal aspartyl protease)
7050 AA891824 n, o 20225 NM_022198 b, I, m					Mus	s musculus 13 days embryo head cDNA, RIKEN full-length enriched library,
7050 AA891824 n, o 20225 NM_022198 b, I, m					rolo)	16:3110005M20:serine/arginine-rich protein specific kinase 2, full insert
7050 AA891824 n, o 20225 NM_022198 b, I, m					ibas	sequence, Mus musculus adult male lung cDNA, RIKEN full-length enriched library,
20225 NM_022198 b, I, m	359	7050 A	VA891824	o, n	con	ie:1200011bZz:signal sequence receptor, delta, full insert sequence, ne/threonine kinase 23
20225 NM_022198  b, l, m	-	_			Mus	s musculus adult male testis cDNA, RIKEN full-length enriched library, le:4930547K11;chloride channel 4-2 full insert segmence, chloride channel 4-2
	9607	Z0ZZ5N		b, I, m	chlo	ride channel 4-2

TABLE 3	က			C. J. tark Holland
SEQ		GenBank Acc.		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
<u>ء</u>	GLGC ID No.	No.	Model Code Human	Homologous Known Gene Name
				Mus musculus adult male testis cDNA, RIKEN full-length enriched library.
				clone:4932434L04:adaptor protein complex AP-2, alpha 2 subunit, full insert
				sequence, adaptor protein complex AP-1, gamma 1 subunit, adaptor protein
				complex AP-1, gamma 2 subunit, adaptor protein complex AP-2, alpha 1 subunit.
				adaptor protein complex AP-2, alpha 2 subunit, adaptor-related protein complex 1.
1060		18198 AI072063		gamma 1 subunit, adaptor-related protein complex 2, alpha 2 subunit, alpha-c large
			P	chain of the protein complex AP-2 associated with clathrin
284		22781 AA874926	듄	Mus musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN
		ľ		CDIVA 3930436K2Z gene, protein phosphatase
465		22783 AA894207	1	IMUS musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN
				cDNA 5930436K22 gene, protein phosphatase
1090		22786 A1101650		Mus musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN
		2000	SS SS	cDNA 5930436K22 gene, protein phosphatase
2367		20235 NM 053302	77	Mus musculus dual specificity phosphatase T-DSP10 mRNA, complete cds, RIKEN
		700000	20,	cDNA 5930436K22 gene, protein phosphatase
				Mus musculus endothelin converting enzyme-2 mRNA, complete cds, endothelin
2406		21700 NIM 053508	= :	converting enzyme 1, expressed sequence AW322500, mel transforming oncogene-
2		NINI_000000	J, K, Y, II	like 1
•				Mus musculus testis expressed homeobox mRNA, complete cds, RIKEN cDNA
				5430405H02 gene, RIKEN cDNA 5730599009 gene, TG interacting factor,
1369	19184	19184 41178025	2	TGF(beta)-induced transcription factor 2-like, TGFB-induced factor (TALE family
		2722	7	homeobox), TGFB-induced factor 2 (TALE family homeobox)
				Mus musculus, Arrestin, beta 2, clone MGC:6525 IMAGE:2651372, mRNA,
888	16584 A	16584 AI013765	>	complete cds, RIKEN cDNA 1200006117 gene, arrestin 3, retinal, arrestin, beta 2,
		200	v., v	expressed sequence Al326910, retinal S-antigen
				Mus musculus, Arrestin, beta 2, clone MGC:6525 IMAGE:2651372, mRNA,
1820	16581 N	16581 NM 012911		complete cds, RIKEN cDNA 1200006117 gene, arrestin 3, retinal, arrestin, beta 2,
		10710	200	expressed sequence Al326910, retinal S-antigen
1965	5676N	5676 NM 017188	ee #	Mus musculus, clone IMAGE:3588380, mRNA, partial cds, unc-119 homolog (C.
				eregalis), unci i s'nomolog (C. elegans)
2191	23488N	23488 NM_024375	n, o	Mus musculus, clone IMAGE:4224368, mRNA, partial cds, growth differentiation
		l		O. Taking

del Code Human Homologous Known Gene Name Human Homologous Se Mus musculus, glutathio IMAGE:4166881, mRNA glutathione S-transferase, mu 5, glutathio IMAGE:4166881, mRNA cDNA 1110004614 gen transferase Mus glutathio IMAGE:4166881, mRNA cDNA 1110004614 gen transferase Musculus, glutathio IMAGE:43067 IMAGE:536 hydroxyacyl-Coenzyme Coenzyme A hydroxyacyl-Coenzyme Coenzyme A hydroxyacyl-Coenzyme (Infunctional protein), be Mus musculus, Similar to Mus musculus, Similar to Mus musculus, Similar to Mus musculus, Similar to Mus musculus, Similar to Mus musculus, Similar to mRNA, complete cds, coron mRNA, complete cds, coron mRNA, complete cds, coron mRNA, complete cds, coron mRNA, complete cds, coron mRNA, complete cds, coron cell carcinoma-associate customatopiet Mus musculus, Similar to mRNA, complete cds, coron cell carcinoma-associate complete cds, coron collection to complete cds, coron cell carcinoma-associate customatopiet condition to complete cds, coron cell carcinoma-associate customatopiet condition to complete cds, coron cell carcinoma-associate coron collection to complete cds, coron cell carcinoma-associate customatopiet condition to complete cds, coron cell carcinoma-associate coron collection to complete cds, coron cell carcinoma-associate coron cell carcinoma-associate coron collection to complete cds, coron cell carcinoma-associate coron cell carcinoma-associate coron collection to complete cds, coron cell carcinoma-associate coron cell carcinoma-associate coron collection to coron collection to cyclin C, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1, cyclin T1,	TABLE	13			- 1	TOOTE A CONTRACT OF
CLGC ID No. Model Code Human Hömölögöus Known Gene Name .  23927 AA957007 g 22862 NM_031154 w, x  1728 NM_133618 w, x  25594 NM_053799 jj, kk, ii  21695 NM_130411 c 19058 AA799803 b, i, m  21695 NM_130411 c 19058 AF054618 ee, ff	SEO		GenBank Acc.	1.		Atty. Ref. 44921-5090-01-WO/2105485
2092 AA799803 b, l, m 21695 NIM_133618 ee, ff 21695 NIM_130411 c 21695 NIM_130411 c 21695 NIM_130411 c 21695 NIM_130411 c 21695 NIM_130411 c 21695 NIM_130411 c 21695 NIM_130411 c 21696 NIM_130411 c 21696 NIM_130411 c 21696 NIM_130411 c 21696 NIM_130411 c	٥	GLGC ID	No.	Model Code	Homologous Known Gene Name	Juster Title
20862 NM_031154 w, x  1728 NM_133618 w, x  25594 NM_053799 jj, kk, il  20998 AA799803 b, l, m  21695 NM_130411 c  19058 AF054618 ee, ff					Mus musculus, glutathione S-transi IMAGE:4166881, mRNA, complete	isferase, mu type 3 (Yb3), clone MGC:30483 te cds, RIKEN cDNA 0610005A07 gene,
20862 NM_031154 w, x  1728 NM_133618 w, x  25594 NM_053799 jj, kk, il  20998 AA799803 b, l, m  21695 NM_130411 c  19058 AF054618 ee, ff  3454 NM_053662 p, q	658		AA957007	a	glutathione S-transferase M2 (must	iscle), glutathione S-transferase M5, glutathione S-
20862 NM_031154 w, x  1728 NM_133618 w, x  25594 NM_053799 jj, kk, II  20998 AA799803 b, I, m  21695 NM_130411 c  19058 AF054618 ee, ff  3454 NM_053652 p, q					Mus musculus, dintathione S-transf	ransierase, mu type 3 (Yb3)
20862 NIM_031154 w, x  1728 NIM_133618 w, x  25594 NIM_053799 jj, kk, il  20998 AA799803 b, l, m  21695 NIM_130411 c  21695 NIM_130411 c  3454 NIM_053692 p, q					IMAGE:4166881, mRNA, complete	te cds, RIKEN cDNA 0610005A07 gene, RIKEN
25594 NM_133618 w, x  25594 NM_053799 jj, kk, li  20998 AA799803 b, l, m  21695 NM_130411 c  21695 NM_130411 c  3454 NM_053662 p, q	2265		MM 02454	3	cDNA 1110004G14 gene, glutathio	ione S-transferase M2 (muscle), glutathione S-
1728 NIM_133618 w, x 25594 NIM_053799 jj, kk, li 20998 AA799803 b, l, m 21695 NIM_130411 c 21695 NIM_130411 c 3454 NIM_053662 p, q	7707		4C)   CO_MIN	×, ×	transferase M4, glutathione S-trans	Isferase M5, glutathione S-transferase, mu 5
1728 NM_133618 w, x  25594 NM_053799 jj, kk, ll  20998 AA799803 b, l, m  21695 NM_130411 c  21695 NM_130411 c  3454 NM_05362 p, q					Mus musculus, similar to Acetyl-Co	o A acetyltransferase 1, mitochondrial, clone
1728 NM_133618 w, x 25694 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 13058 AF054618 ee, ff					MGC:3806/ IMAGE:5365469, mRN	RNA, complete cds, Mus musculus, Similar to
1728 NM_133618 w, x 25594 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					hydroxyacyr-Coenzyme A dehydrog	ogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-
25594 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					Coenzyme A hydratase (trifunctions	nal protein), beta subunit, clone MGC:7126
1728 NM_133618 w, x 25594 NM_053799 jj, kk, il 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					IMAGE:3158015, mRNA, complete	e cds, acetyl-Coenzyme A acyltransferase
25594 NM_053799 jj, kk, il 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 b, q					(peroxisomal 3-oxoacyl-Coenzyme	e A thiolase), hydroxyacyl-Coenzyme A
25694 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	0000		1		dehydrogenase/3-ketoacyl-Coenzyr	yme A thiolase/enoyl-Coenzyme A hydratase
25594 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	2022		NM_133518	×,×	(trifunctional profein), beta subunit	
25594 NM_053799 jj, kk, ll 20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					Mus musculus, Similar to aspartyl-ti	-tRNA synthetase, clone MGC:6719
20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	2422		005030 MIN	= 13	IMAGE:3588278, mRNA, complete	e cds, asparaginyl-tRNA synthetase, aspartyl-
20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	7047		BB / SCO_ININI	J, KK, II	(RNA synthetase, lysyl-tRNA synthe	netase
20998 AA799803 b, l, m 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					Mus musculus, Similar to compleme	nent component 1, s subcomponent, clone
21695 NM_130411 c 21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					MGC:19094 IMAGE:4196654, mRN	NA, complete cds, Mus musculus, Similar to
21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	7	10000	0000000	1	complement component 1, s subcor	omponent, clone MGC:28492 IMAGE:4166254,
21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q	*	70220	HA/ 33003	Ε'1'α	mRNA, complete cds, complement or	t component 1, s subcomponent, protein C
21695 NM_130411 c 19058 AF054618 ee, ff 3454 NM_053662 p, q					Mus musculus, Similar to coronin, a	actin binding protein, 2A, clone IMAGE:4984475,
19058 AF054618 ee, ff 3454 NM_053662 p, q	2504		NIM 420414		mRNA, partial cds, coronin, actin bir	vinding protein 1A, coronin, actin binding protein,
19058 AF054618 ee, ff 3454 NM_053662 p, q	1	Ī	1 1001 1	3	<b>V</b>	
19058 AF054618 ee, ff 3454 NM_053662 p, q				-	Mus musculus, Similar to corfactin is	isoform B, clone MGC:18474 IMAGE:3981559,
19058 AF054618 ee, ff 3454 NM_053662 p, q					mRNA, complete cds, cortactin, ems	ns1 sequence (mammary tumor and squamous
13U30 AFU34b18 ee, п 3454 NM_053662 p, q	750	01007	0.000	8	cell carcinoma-associated (p80/85 s	src substrate), hematopoietic cell specific Lyn
3454NM_053662 p, q	8	igens!	Ar054618	ee, π	substrate 1, hematopoietic cell-spec	cific Lyn substrate 1
3454 NM_053662   p, q					Mus musoulus, Similar to cyclin K, cl	clone MGC:28173 IMAGE:3986609, mRNA,
3404 NW USSES (p, q	7447		00000		complete cds, Paneth cell enhanced	d expression, RIKEN cDNA 1810009O10 gene,
	741/	-	7995CN WIN	D, α	cyclin L, cyclin T1, cyclin T2	

TABLE 3		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY	Company of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
SEO	ľ	GenBank Acc.	-	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	8
₽	GLGC ID No.	No.	Model Code Human H	Juman Homologous Known Gene Name Human Homologous Sequence Cluster Title	
2417		2455 NM : 053662	, ,	Mus musculus, Similar to cyclin K, clone MGC:28173 IMAGE:3986609, mRNA, complete cds, Paneth cell enhanced expression, RIKEN cDNA 1810009010 gene,	Θ,
		700000 TIAL	55 T	Cyclin L, cyclin T1, cyclin T2	
2377		19512 NM_053365	:=	IMAGE:3670866, mRNA, complete cds. fatty acid binding protein 4, adipocyte, clone MGC:18548	8
				Mus musculus, Similar to glutathione peroxidase 3 (plasma), clone MGC:19204	
2131		NM 022525	7	IMAGE:4237630, mRNA, complete cds, glutathione peroxidase 3, glutathione	
2 6	1	225222 225222 225222	20,00	peroxidase 3 (plasma)	
7	$\perp$	AA/ 9950 I	D	Mus musculus, Similar to ligatin, clone IMAGE:4982955, mRNA, partial cds, ligatin	Ë
				Mus musculus, Similar to N-arginine dibasic convertase 1, clone MGC:25477	
1883		1310 NM_013159	=	in a de	
		l		Mus musculus, Similar to phospholipase C. gamma 2 (phosphalidylingsital spanific)	U.
				clone IMAGE:3983937, mRNA, partial cds, cell differentiation and embryonic	<u>.                                    </u>
70		107070		development, expressed sequence Ai894140, phospholipase C, gamma 1 (formerly	<u>}</u>
ē		1/14 NM_01318/	ä, Ķ	subtype 148)	•
				Mus musculus, Similar to protein C receptor, endothelial, clone MGC:41156	Τ
14.75		00710714		IMAGE:1054063, mRNA, complete cds, protein C receptor, endothelial, protein C	
0/1-		9100 AI 13/400	Ϋ́	receptor, endothelial (EPCR)	
				Mus musculus, Similar to solute carrier family 22 (organic anion transporter),	T
				member 7, clone MGC:18877 IMAGE:4236556, mRNA, complete cds, expressed	_
2304	- 57	24 NIM 052527		sequence AI648912, solute carrier family 22 (organic anion transporter), member 6,	<u>.</u> ق
1607	2	Nivi Oppopol	a	solute carrier family 22 (organic anion transporter), member 7	
	•			Mus musculus, similar to src homology three (SH3) and cysteine rich domain, clone MGC:38869 IMAGE:5361431, mRNA, complete cds, RIKEN cDNA 2610027H02	e e
				gene, RIKEN cDNA 2610301F02 gene, alpha-spectrin 1, erythroid, nesprin-1,	
1		0077001		spectrin, alpha, erythrocytic 1 (elliptocytosis 2), spectrin, alpha, non-erythrocytic 1	
3		ZU/41 AFU84186	S, t	(alpha-fodrin), src homology three (SH3) and cysteine rich domain	
0000		760 NIM 00004E		Mus musculus, Similar to sulfite oxidase, clone MGC:28458 IMAGE:4160277,	Π
2022		14ivi 022243		mRNA, complete cds, RIKEN cDNA 0610009N12 gene, cytochrome b-5	
				Mus musculus, Similar to sulfite oxidase, clone MGC:28458 IMAGE:4160277, IMBNA complete cde Riken change and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and associated and as	
2251	14970	14970 NM_031127	a, h, l, n, o	IIII MAYA, OSIIII PIONA I OSIII OSII OSII OSII OSII OSII OSIII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII OSII Osii osii osii osii osii osii osii osii	
				Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Constant State Consta	٦

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SEO 0	GLGC ID No.	GenBank Acc. No.	Model Code	uman Homologous Known Gene Name Human Homologous Sequence Clus
1617		18482 AI639151	<u>86</u>	Mus musculus, Similar to thyroid hormone receptor-associated protein, 150 kDa subunit, clone MGC:37192 IMAGE:4954840, mRNA, complete cds, pinin, pinin, desmosome associated protein
674		11500 AA963171	. dd	Musashi homolog 1(Drosophila), Musashi homolog 2 (Drosophila), RIKEN cDNA 4933434H11 gene, expressed sequence AA959857, heterogeneous nuclear
116		10320 AA800855	b, I, m	myeloid leukemia factor 2
2537		517 NM_134350	တ	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse), mouse),
2443		16361 NM_053853	cc, dd	N-acetyltransferase 1 (arylamine N-acetyltransferase)
1139		18509 AI104528	듄	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6 (17kD, B17)
9	21065	21065 AA800179	s, t	neighbor of COX4, neighbor of Cox4
2011	17202	17202 NM 017357	20	Neural visinin-like protein 1, RIKEN cDNA 4921521K07 gene, expressed sequence
772		3931 AI008697	n, o	neuroligin, neuroligin 1, neuroligin 3
1332	22716	22716 AI176500	f, g	Nidogen (entactin), nidogen (enactin), nidogen 1
1564	22717	22717 AI235948	ð	Nidogen (entactin), nidogen (enactin), nidogen 1
8		18378 AA799888	hh	nuclear localization signal deleted in velocardiofacial syndrome, nuclear localization
779		16652 AI009019	ρ.	Indear receptor subfamily 2, group F, member 6
2194	211	21 NM_024388	W, X	nuclear receptor subfamily 4, group A, member 1
2194	22	22 NM_024388	w, x	nuclear receptor subfamily 4, group A, member 1
2382	46221	4622 NM_053463	m,	nucleobindin, nucleobindin 1
2319		20210 NIM 031710	>	odorant receptor \$1 gene, olfactory receptor 41, olfactory receptor, family 6,
				Paired basic amino acid cleaving enzyme (furin), paired basic amino acid cleaving
0030		000000	1	enzyme (furin, membrane associated receptor protein), proprotein convertase
6707		SCCSC MINI SCCZ	E I	subtilisin/kexin type 3, proprotein convertase subtilisin/kexin type 4
				paired basic amino acid cleaving enzyme (furin, membrane associated receptor
2059		16330 NM_019331	- '- - '-	protein), proprotein convertase subtilisin/kexin type 3, proprotein convertase subtilisin/kexin tyne 4
2364		15867 NM_053289	a, h, l, w, x	pancreatitis-associated protein

TABIE 2	1.2				
700			francisco de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de la constante de l	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Attivited AAGO4 FOOD OF WICHOUSEAGE
) 1) 1)		GenBank Acc.			Aug. 1761. 4492 1-0090-01-4VO/Z:100460
Ω	GLGC ID No.		Model Code Human F	Human Homologous Known Gene Name.	
1006		9175	9	inerioantriolar material 1	
2478		057114	Р	Deroxinada Hacilari	
2137	36	022540	j, k, w, x	S narrada	
1879		013151	p,q	Discussing of instance of instance of instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance instance i	
1865	5 20878 NM_013085	013085	p	Discrimogen activator undirect	
				Dollovirus recentor-related 1 poliovirus recentor-related 1 poliovirus recentor-related 1	1 policy in the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of th
			a, p, q, y, z,	(herpesvirus entry mediator C; nectin), poliovirus recentor-related 2 (herpesvirus	d i, policylids receptor-related i virus receptor-related 2 (hernesvirus
1931	923 NM_017076	317076	ee, ff	entry mediator B), poliovirus sensitivity, tumor-associated antinen	r-associated antioen 1
700			a, d, r, y, z,	potassium inwardly rectifying channel, subfamily J. member 11. potassium inwardly-	mily J, member 11, potassium inwardiv-
6/77	18054 NM_U31358		ee, Ħ, KK	rectifying channel, subfamily J, member 11	
2222	1006E NIM 0010E0	04050	::	potassium inwardly recitifying channel, subfamily J, member 11, potassium inwardly-	nily J, member 11, potassium inwardly-
1700		000	d, I, III, JJ, KK	rectifying channel, subfamily J, member 11	
00/-	1		n, o	POU domain, class 2, transcription factor 3, POU franscription factor	OU transcription factor
18/3	7854 NM_013115		- -	prostaglandin F receptor, prostaglandin F receptor, prostaglandin F receptor (FP)	enfor (FP)
0000				protein inhibitor of activated STAT 1, protein inhibitor of activated STAT 3, profein	Inhibitor of activated STAT 3 profein
0767	497120_MINIC264	$\top$	Б	inhibitor of activated STAT gamma, protein inhibitor of activated STAT3	hibitor of activated STAT3
2429	1016 NM 053772		5	protein kinase (cAMP-dependent, catalytic) inhibitor alpha, protein kinase inhibitor,	hibitor alpha, protein kinase inhibitor,
			68.	alpha	
				PRP31 pre-mRNA processing factor 31 homolog (yeast), RIKEN cDNA	olog (yeast), RIKEN cDNA
2087	20035 NIM 024754		:	1500019016 gene, nucleolar protein 5, nucleolar protein 5A (56kD with KKE/D	olar protein 5A (56kD with KKE/D
1004			a, y, c	repeat), nucleolar protein NOP5/NOP58	
2460	18798 NM 053978		-	RAB11a, member RAS oncogene family, RAB28, member RAS oncogene family,	328, member RAS oncogene family,
2016			2 1 1 1	expressed sequence AW496496	
2490		T	: _ 4	rapaptin-5	-
3	70 I	T		Ras-induced senescence 1	
2000	45037 NIM 047247			Rattus norvegicus extracellular signal-regulated kinase 7 mRNA, complete cds,	ed kinase 7 mRNA, complete cds,
2007		T	ď,	mitogen activated protein kinase 3, mitogen-activated protein kinase 7	ctivated protein kinase 7
	••••			Rattus norvegicus kallistatin mRNA, complete cds, serine (or cysteine) proteinase	cds, serine (or cysteine) proteinase
1407	6455			inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member	it epithelium derived factor), member
1000	45450 A A 050044		aa, oo	1, serine protease inhibitor 2	
250	12100 44629346		u, v	ribonuclease P (38kD)	
4017	17808 NM 022699		g, dd	ribosomal protein L30	
77.77	186/NM_022510		Ç K	ribosomal protein L4	

TABLE 3			. M. 1881	学 (本) 1 本 (本) 1 年 (4921-5090-01-WO/2/105485	-01-WO/2105485
SEO 10	GLGĆ ID No.	GenBank Acc. No.	Model Code Human	Homologous Known Gene Name Human Homologous Sequence Clu	
1897		20864 NM_013215	b, I, m	RIKEN cDNA 0610025K21 gene, aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase)	mber A2
2252		6525 NM_031129	66	RIKEN cDNA 0610040H15 gene, RIKEN cDNA 2210409E12 gene, transcription elongation factor B (SIII), polypeptide 2 (18kD, elongin B)	transcription
591		14763 AA944481		RIKEN cDNA 1110007F23 gene, angiopoietin 2, angiopoietin-like 3, angiopoietin-like 4, ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin), ficolin frollanen/fibrinogen domain containing 1 ficolin R	s, angiopoietin- in), ficolin
510		4907 AA924091	F	RIKEN cDNA 1110031102 gene, gene rich cluster, B gene, hypothetical protein FLJ22222, leprecan, leprecan 1	tical protein
2397		21940 NM_053568	•	RIKEN cDNA 1110033E03 gene, phosphate cytidylyltransferase 2, ethan	ethanolamine
				RIKEN cDNA 1300003A17 gene, RIKEN cDNA 3222402004 gene, expressed sequence C76800, hypothetical protein DKFZp761B2423, myeloid/lymphoid or	expressed lymphoid or
420		24279 AA892919	<u>.</u>	mixed-lineage leukemia, nucleolar and coiled-body phosphoprotein 1, nucleolar and coiled-body phosphprotein 1	1, nucleolar and
				RIKEN cDNA 1300003A17 gene, RIKEN cDNA 3222402004 gene, expressed sequence C76800, hypothetical protein DKFZp761B2423, myeloid/lymphoid or	expressed lymphoid or
2160		24283 NM_022869	s, t	mixed-lineage leukemia, nucleolar and coiled-body phosphoprotein 1, nucleolar and coiled-body phosphprotein 1	1, nucleolar and
2450	[	45042 NIM 052072		RIKEN cDNA 1300010C19 gene, RIKEN cDNA 5730543C08 gene, Ras-related GTP-binding protein, expressed sequence Al255374, small GTPase, homolog (S.	Ras-related e, homolog (S.
245		11635 AA859645		RIKEN cDNA 1300011D16 oene. attractin. testis intracellular mediator protein	tor protein
2128		4242 NM 022521	E	RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, ornithine aminotransferase (ovrate atrophy)	ornithine
763	-	11368 AI007948	Ε,	RIKEN cDNA 1500006009 gene, hypothetical protein FLJ23445	
1342		10310 AI176961	o 'u	RIKEN cDNA 1500031N16 gene, mitochondrial ribosomal protein L12	12
2555		8468 NM_138861	q	RIKEN cDNA 1600016E11 gene, mitogen regulated protein, proliferin 3, prolactin, proliferin 2 prolactin-like protein M, proliferin 2	rin 3, prolactin,
				RIKEN cDNA 1700024D23 gene, RIKEN cDNA 4731413605 gene, potassium channel, subfamily K, member 2, potassium channel,	potassium ssium channel,
134	1	1754 AA817837	KK.	subfamily K, member 2 (TREK-1), potassium channel, subfamily K, member 5, potassium channel, subfamily K, member 5 (TASK-2)	member 5,

TABLE 3			J. F.	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Atty. Ref. 44921-5090-013WO/2105485
SEO O	GLGC ID No.	GenBank Acc. No.	Model Code	Model Code Human Homologous Known Gene Name	Human Homologous Sequence Cluster Title
40	21120	21120 AA799526	p, q, gg		RIKEN cDNA 1700043E15 gene, small nuclear ribonucleoprotein D3 polypeptide (18kD)
1255	17529	17529 A1171460	l, 'n		RIKEN cDNA 1810026B04 gene, dicarbonylL-xylulose reductase, hydroxysteroid (17-beta) dehydrogenase 8, hypothetical protein BC014057, hypothetical protein FLJ14431, oxidoreductase UCPA
1699	24520	24520 120869	Φ		RIKEN cDNA 2010002L15 gene, pancreatitis-associated protein, regenerating islet-derived 3 gamma
628	884	884 AA946362	:==		RIKEN cDNA 2010006G21 gene, RIKEN cDNA 2810425K19 gene, sorting nexin 5
423	19124	19124 AA893022		•	RIKEN CDNA 2310016C16 gene, RIKEN cDNA 3110050F08 gene, glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)
434	16168	16168 AA893280	a, y, z		RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
					RIKEN cDNA 2410002J21 gene, activator of CREM in testis, expressed sequence AV278559, expressed sequence AW123232, four and a half LIM domains 2,
992	12529	12529 AA957362	o		paxillin, transforming growth factor beta 1 induced transcript 1, vascular Rab-GAP/TBC-containing
929	22317	22317 AA943766	.; X		RIKEN CDNA 2410004D18 gene, RIKEN cDNA 4930485D02 gene, aspartylglucosaminidase, expressed sequence AW060726
2109	13480	13480 NM_022390			RIKEN cDNA 2610008L04 gene, quinoid dihydropteridine reductase
2345	17556	17556 NM_031975	j, k		RIKEN cDNA 2610009E16 gene, parathymosin, prothymosin alpha
2517	7700	7700 NM_133386	ee, ff		RIKEN cDNA 2610037M15 gene, sphingosine kinase 1, sphingosine kinase 2
					RIKEN cDNA 2610103M17 gene, excision repair cross-complementing rodent repair deficiency, complementation group 1, excision repair cross-complementing
411	21972	21972 AA892791	:=		rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
263	4222.	4222 AA860024	h, I, w, x		RIKEN cDNA 2610301D06 gene, eukaryotic translation elongation factor 1 gamma
871	16984	16984 AI013161	aa, bb		RIKEN cDNA 2610301D06 gene, eukaryotic translation elongation factor 1 gamma
2006	16382	16382 NM_017343	cc, dd		RIKEN cDNA 2900073G15 gene, myosin regulatory light chain
2607	21583	21583 S77900	bb, kk		RIKEN cDNA 2900073G15 gene, Rat mRNA for myosin regulatory light chain (RLC), myosin, light polypeptide, regulatory, non-sarcomeric (20kD)

TABLE 3	3		1000		Atty. Ref. 44921-5090-01-WO/2105485				
SEO CE	Ger Glocin No	GenBank Acc.	Model Code Himsp	ame N and Crawon's succession of the second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second and second	Himan Homological Segretation Olietar Title				
	מרפה וב	100.	ואוסמבו ססמב		וניתוומון ואינס סבלים סבלים ליינים מיינים	18438 AI010930	е, г		RIKEN cDNA 3100001N19 gene, ribosomal protein L14
1154	18439	18439 AI111877	L		RIKEN cDNA 3100001N19 gene, ribosomal protein L14				
2166	18107	18107 NM_022949	f, g		RIKEN cDNA 3100001N19 gene, ribosomal protein L14				
					RIKEN cDNA 3200002106 gene, dynein, cytoplasmic, intermediate chain 2, dynein,				
2447	1352	1352 NM_053880	aa		cytoplasmic, intermediate polypeptide 2, hypothetical protein MGC20486				
					RIKEN cDNA 4930425N13 gene, hexosaminidase A, hexosaminidase A (alpha				
138	14101	14101 AA817867	:=		(polypeptide)				
					RIKEN cDNA 4930441F12 gene, reticulon 1, reticulon 2, reticulon 2 (Z-band				
1272	16293	16293 AI172183	ပ		associated protein)				
					RIKEN cDNA 4930544G11 gene, expressed sequence Al324259, ras homolog 9				
1394	7213	7213 AI179356	W, X		(RhoC), ras homolog A2, ras homolog gene family, member C				
6	00.00	000007	y, z, ee, ff,		אייטקבטטטע אומם ווייון				
2027	23166	23166 NM 138839	KK		KIKEN CUNA 49305/9A11 gene, likely ortholog of rat vacuole memorane protein 1				
					RIKEN cDNA 5031400M07 gene, homocysteine-inducible, endoplasmic reticulum				
2389	18826	18826 NM_053523	bb		stress-inducible, ubiquitin-like domaiń member 1, hypothetical protein FLJ22313				
					RIKEN cDNA 5730414C17 gene, hippocampus abundant gene transcript 1,				
					hypothetical protein DKFZp564L0864 similar to HIAT1, hypothetical protein				
336	21951	21951 AA891535	pp 'so		FLJ14753				
					RIKEN cDNA 5730454C12 gene, expressed sequence C79945, glutamine fructose-				
	•				6-phosphate transaminase 1, glutamine fructose-6-phosphate transaminase 2,				
					glutamine-fructose-6-phosphate transaminase 2, phosphoribosyl pyrophosphate				
938	7867	7867 AI043695			amidotransferase				
	<del>-</del>				RIKEN cDNA 5730592L21 gene, hypothetical protein FLJ14927, proprotein				
2622	20224	20224 U47014	b, u, v		convertase subtilisin/kexin type 5, thrombospondin, thrombospondin type 1 domain				
288	17303	17303 AA874990	u, v, w, x		RIKEN cDNA 6330407G11 gene, hypothetical protein FLJ10342				
2497	17662	17662 NM_080697	pp 'co		RIKEN cDNA 6720463E02 gene, dynein light chain 2				
					RIKEN cDNA C030018L16 gene, SMC (segregation of mitotic chromosomes 1)-like				
					1 (yeast), SMC (structural maintenace of chromosomes 1)-like 2 (S. cerevisiae),				
					SMC (structural maintenance of chromosomes 1)-like 1 (S. cerevisiae), SMC1				
					structural maintenance of chromosomes 1-like 1 (yeast), SMC4 structural				
282		16082 AA874887	<u>:</u> =		maintenance of chromosomes 4-like 1 (yeast)				

TABLE 3	٠.			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	30-01-WO/2105485
		GenBank Acc.	0 1 1	China at the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	
<u>9</u>	GLGC ID No.	No.	Model Code Human	нотообоиз кломп сепе мате	
				RIKEN cDNA C030022K24 gene, chromosome 12 open reading frame 8,	rame 8,
2454	16552	16552 NM_053961	h, I, n, o	endoplasmic reticulum protein 29	
				RIKEN cDNA C030022K24 gene, chromosome 12 open reading frame 8,	rame 8,
2454	16553	16553 NM_053961	ј, Г	endoplasmic reticulum protein 29	
				RNA polymerase II transcriptional coactivator, activated RNA polymerase II	merase II
1692	23486	23486 K02816	g g	transcription cofactor 4	
1518	13645	13645  AI232694	표	SEC24 related gene family, member C (S. cerevisiae)	
784	9150	9150 AI009198	h, I	serine/threonine kinase receptor associated protein, unr-interacting protein	ng protein
				sialyltransferase, sialyltransferase 7 ((alpha-N-acetylneuraminyl 2,3-beta-galactosyl-	.,3-beta-galactosyl-
504	16976	16976 AA901341	<u></u>	1,3)-N-acetyl galactosaminde alpha-2,6-sialyltransferase) B	
2165	18104	18104 NM_022948	H4	sideroflexin 1, sideroflexin 2, sideroflexin 3	
289	21522	21522 AA944449	66	signal recognition particle 68kD	
1163	23428	23428 AI113320	=	similar to arginyl-tRNA synthetase	
1788	3600	3600 NM 012751	æ	solute carrier family 2 (facilitated glucose transporter), member 4	
1788	3601	3601 NM_012751		solute carrier family 2 (facilitated glucose transporter), member 4	
398	17468	17468 AA892545	-	solute carrier family 22 (organic cation transporter), member 1-like	9
				solute carrier family 27 (fatty acid transporter), member 1, solute carrier family 27	carrier family 27
2399	653	653 NM_053580	aa, bb	(fatty acid transporter), member 4	
				solute carrier family 4 (anion exchanger), member 3, solute carrier family 4, anion	r family 4, anion
1921	24695	24695 NM_017049	ပ	exchanger, member 3	
286	15116,	15116 AA874928		sorting nexin 4	
1585	11404	11404 AI237002	슏	spermidine synthase, spermine synthase	
2249	882	882 NM_031123	ס	stanniocalcin, stanniocalcin 1	
2396	15708	15708 NM_053565	p, q, y, z	STAT induced STAT inhibitor 3, cytokine inducible SH2-containing protein 3	g protein 3
1437	15078	15078 41228830		stearoyl-CoA desaturase (delta-9-desaturase), stearoyl-Coenzyme A desaturase 2	ne A desaturase 2
		0000	:	Stanny Continged (della Gidecaturaca) stanny Continged	C oseritase 2
2338	200	1507 / ININI_US 184	=	steartyl-Con desault ase (tena crossum ase), steartyl-Conteyn	4 000 000 000 000
604	4207	4207 AA945591	n, o, w, x	stromal cell derived factor 2, stromal cell-derived factor 2-like 1	
2150	20509	20509 NM_022689	b, r, u, v	synaptosomal-associated protein, 23kD	
77.	45770	ADOMEGAE	5	thyrotropin releasing hormone receptor, thyrotropin releasing hormone receptor 2, thyrotropin-releasing hormone receptor 2,	mone receptor 2,
4	12/16/	13/1/2 ABU13043	וככי מח	ימיקטטר טויטוויטון אַוויסטוטרדוויקטיטטרן ווין	

GLGC, ID, No.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   GenBank Acc.   Gen	TABLE 3			**	The first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the f	*** *** *** *** *** *** *** *** *** **
GLGC, D  No.   Model Code   Human Homologous Known Gene Name   GLGC, D  No.   Model Code   Human Homologous Known Gene Name   15004   AL235224   2, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk   2, h, kk	SEO		ank Acc.			
15004 AI235224 2, kk 15002 NM_053819 x, z, hh, kk 15002 NM_053819 x, z, hh, kk 15003 NM_053819 x, z, hh, kk 17243 AA899894 r 6808 AI045600 w, x 7505 NM_07374 li 21722 NM_073174 li, kk 21722 NM_073174 li, kk 21723 NM_073174 li, kk 21723 NM_073174 li, kk 21723 NM_073174 li, kk 21723 NM_073174 li, kk 21723 NM_073174 li, kk 3619 AI76588 li, k 3619 AI76588 li, k 3619 AI76588 li, k 2128 AI102519 lh, o, w, x 16468 AA926137 lh 22708 AA946063 u, v 18596 NM_031325 li, k, p, q, 18597 NM_031325 li, k, p, q, 18597 NM_031325 li, k, p, q, 18598 NM_031325 li, k, p, q, 18598 NM_031325 li, k, p, q, 18598 NM_031325 li, k, p, q, 18598 NM_031325 li, k, p, q, 18598 NM_031353 li, g, li, k, p, q, 18538 NM_031353 li, g, li, k, p, q, 18538 NM_031353 li, g, li, k, p, q, 18538 NM_031353 li, g, li, k, p, q, 18538 NM_031353 li, g, li, k, p, q, 18538 NM_031353 li, g, li, k, p, q,		SLGC ID No.		Model Code		in Homologous Sequence Cluster Title
15002 NW_053819				a, I, n, o, x,	enssit	inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1
15002 NM_053819	1553	15004 AI235;	224	z, Kk	(eryth	iroid potentiating activity, collagenase inhibitor)
15002 NM_053819 x, z, hh, kk  15003 NM_053819 x, z, hh, kk  18706 AA799471 d 17243 AA898394 r 17243 AA898394 r 17243 AA898394 r 17250 NM_02534 ii 13929 NM_031313 ii, o, hh 21722 NM_031314 ji, kk 21722 NM_031317 ji, kk 21723 NM_031315 ii, k 3619 AA8963515 ii a, c, t, ee, ff, is, t 12389 AA8963515 ii k 21724 NM_031325 ii, k, w, x 1648 AA926137 hh 22708 AA964595 ii, l, s, t 1648 AA926137 hh 22708 AA964595 ii, k, ee, ff 1859 NM_031325 ii, v, v 1859 NM_031325 ii, v, v 1859 NM_031325 ii, k, ee, ff 4534 NM_133881 c 1859 NM_031353 ii, g				a, l, k, n, o,		inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1
15003   NM_053819	2435	15002 NM_0		x, z, hh, kk		roid potentiating activity, collagenase inhibitor)
15003 INM_053819  x, z, hh, kk  18706 AA799471				a, I, k, n, o,		inhibitor of metalloproteinase, tissue inhibitor of metalloproteinase 1
18706 AA799471 d 17243 AA899894	2435	15003 NM_0	53819	x, z, hh, kk	(eryth	roid potentiating activity, collagenase inhibitor)
17243 AA89894   r 6808 AI045600   w, x 7505 NIM_02534   ii 21722 NIM_031131   n, o, hh 21722 NIM_013174   p, q 12399 AA801307   gg, ll 12398 AA801307   gg, ll 12398 AA803375   ii 14342 AA964595   h, l, s, t 14342 AA964595   h, l, s, t 16468 AA926137   hh 22708 AA926137   hh 22708 AA926137   hh 22708 AA926137   hh 48596 NIM_031325   u, v 18599 NIM_031325   u, v 18594 NIM_138881   c 18539 NIM_031353   f, g 16539 NIM_031353   f, hh	32	18706 AA799	3471	P	titin-ce	ap (telethonin)
6808 AI045600	477	17243 AA899	9894	_	TRAM	A-like protein, translocating chain-associating membrane protein
7505 NNM_022534 lii 13929 NNM_031314 li, kk 21722 NNM_013174 li, kk 21722 NNM_013174 li, kk 2172398 AA801307 gg, ll 12398 AA803515 li 14342 AA864595 li, l, s, t  1621 NNM_013091 li, kk 3619 A176588 li, k 2125 A102519 li, o, w, x 16468 AA926137 lih 22708 AA946063 li, v 18596 NNM_031325 li, v a, j, k, p, q, 18597 NNM_031325 li, k, p, q, 18597 NNM_031325 li, k, d, j, d, d, l, l, l, g, d, l, l, l, l, l, l, l, l, l, l, l, l, l,	981	6808 A1045t	900	w'x	TRAM	A-like protein, translocating chain-associating membrane protein
13929 NM_03131	2134	7505 NM_0.	22534	:==	transc	cobalamin 2, transcobalamin II; macrocytic anemia
21722 NM_013174 ji, kk 21723 NM_013174 p. q 12398 AA881307 gg, ll 12398 AA883515 ll 2689 AA883515 ll 14342 AA864595 h, l, s, t 3619 AI176588 j, k 3619 AI176588 j, k 3619 AI176588 j, k 2125 AI102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18596 NM_031325 j, z, ee, ff 4594 NM_138881 c 18597 NM_031353 f, g	2253	13929 NM_0.	31131	n, o, hh	transfe	forming growth factor, beta 2
21723 NIM_013174 p. q 12398 AA801307 gg. II 12689 AA893515 II 14342 AA964595 h, I, s, t 14342 AA964595 h, I, s, t 1521 NIM_013091 jj. kk 3619 A176588 j. k 2125 A1702519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NIM_031325 u, v 18596 NIM_031325 y, z, ee, ff 4594 NIM_138881 c 18597 NIM_031325 y, z, ee, ff 4599 NIM_031353 f, g	1887	21722 NM_0	13174	jj, Kk	transfe	orming growth factor, beta 3
12399 AA801307 9g, II 12398 AA893515 II 14342 AA964595 h, I, s, t  14342 AA964595 h, I, s, t  1521 NM_013091 jj, kk 3619 A1176588 j, k 2125 A1102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18596 NM_031325 j, z, ee, ff 4594 NM_138881 c 18539 NM_031353 j, z, ee, ff 16539 NM_031353 f, g	1887	21723 NM_0	13174	p, q	transfe	forming growth factor, beta 3
12398 AN008689 s, t  2689 AA893515 li  14342 AA964595 h, l, s, t  1521 NM_013091 jj, kk  3619 A176588 j, k  2125 A1102519 n, o, w, x  16468 AA926137 hh  22708 AA946063 u, v  18596 NM_031325 u, v  4594 NM_13881 c  18599 NM_031325 y, z, ee, ff  4594 NM_13881 c  18539 NM_031353 f, g	126	12399 AA801	1307		transft	orming, acidic colled-coil containing protein 1
2689 AA893515 II  14342 AA964595 h, l, s, t  1521 NM_013091 jj, kk 3619 A1176588 j, k 2125 A102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g	771	12398 A1008t	689	s, t	transfe	orming, acidic colled-coil containing protein 1
14342 AA964595 h, l, s, t  1521 NM_013091 ji, kk 3619 A176588 j, k 2125 A102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g	439	2689 AA893	3515		transic	ocation protein 1
14342 AA964595 h, l, s, t  1521 NM_013091 ji, kk 3619 Al176588 j, k 2125 Al102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g		_			Treac	ther Collins Franceschetti syndrome 1, homolog, Treacher Collins-
1521 NM_013091 ji, kk 3619/A176588 j, k 2125/A1102519 n, o, w, x 16468/AA926137 hh 22708/AA946063 u, v 18596/NM_031325 u, v 18597/NM_031325 u, v 18597/NM_031325 y, z, ee, ff 4594/NM_138881 c 18539/NM_031353 f, g	691	14342 AA964	1595	h, I, s, t	France	seschetti syndrome 1, expressed sequence AA408847
1521 NM_013091 jj, kk 3619 A176588 j, k 2125 A102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g					tumor	necrosis factor receptor superfamily, member 12, tumor necrosis factor
a, s, t, ee, ff,  3619 A176588 j, k  2125 A102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g					recept	itor superfamily, member 12 (translocating chain-association membrane
1521 NM_013091a, s, t, ee, ff,3619 A176588j, k2125 A1102519n, o, w, x16468 AA926137hh22708 AA946063u, v18596 NM_031325u, va, j, k, p, q,a, j, k, p, q,4594 NM_138881c18539 NM_031353t, g16777 NM_031354hh					proteir	in), tumor necrosis factor receptor superfamily, member 1A, tumor necrosis
1521 NM_013091 jj, kk 3619 Al76588 j, k 2125 Al102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g				a, s, t, ee, ff,		receptor superfamily, member 1a, tumor necrosis factor receptor superfamily
3619/A176588  ; k 2125/A102519	1868	1521 NM_0	13091	jj, kk	memb	oer 22, tumor necrosis factor receptor superfamily, member 23
2125 A102519 n, o, w, x 16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g	1337	3619 AI176	588	j, k	tumor	r protein p53-binding protein
16468 AA926137 hh 22708 AA946063 u, v 18596 NM_031325 u, v 18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g	1101	2125 AI102	519	n, o, w, x	TYRO	) protein tyrosine kinase binding protein
22708 AA946063	551	16468 AA926	3137	hh	ubidu	inol-cytochrome c reductase (6.4kD) subunit
18596 NM_031325       u, v         18597 NM_031325       y, z, ee, ff         4594 NM_138881       c         18539 NM_031353       f, g         16777 NM_031354       lth	621	22708 AA946	3063	u, v	ubiqui	itin-like 3
18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g 16777 NM_031354 hh	2267	18596 NM_0.	31325	u, v	)-IOD	glucose dehydrogenase
18597 NM_031325 y, z, ee, ff 4594 NM_138881 c 18539 NM_031353 f, g 16777 NM_031354 hh				a, j, k, p, q,		
4594NM_138881 c 18539NM_031353 f, g 16777NM_031354 hh	2267	18597 NM_0	131325	y, z, ee, ff	0-40n	glucose dehydrogenase
18539 NM_031353 f, g 16777 NM_031354 hh	2557	4594 NM_1	38881	ပ	vipirin	, viral hemorrhagic septicemia virus(VHSV) induced gene 1
16777 NM_031354 hh	2270	18539 NM_0	31353	f, g	voltag	ye-dependent anion channel 1
	2271	16777 NM_0.	31354	hh	voltag	ge-dependent anion channel 2

Model	Atty. Ref. 44921-5090-01-WO/2105485		
Model	code		
Adrenergic Agonist	а	various	
Alkylating Agents	b	various	
Adriamycin	С	120, 168	
Adriamycin	d	6, 24	
Amphotericin B	e	6	
BI: Alternate	f	168, 336	
BI: Core Tox Markers	g	168, 336	
Clenbuterol: Alternate	h	24	
Clenbuterol: Core Tox Markers		24	
Clenbuterol: Alternate	Ti Ti	6	
Clenbuterol: Core Tox Markers	k	6	
Cyclophosphamide: Alternate	Ti Ti	6, 48, 192	
Cyclophosphamide: Core Tox Markers	m	6, 48, 192	
Epinephrine: Alternate	n	24	
Epinephrine: Core Tox Markers	0	24	
Epinephrine: Alternate	р	3,6	
Epinephrine: Core Tox Markers	q	3, 6	
Epirubicin	r	6, 192	
Hydralazine: Alternate	s	6	
Hydralazine: Core Tox Markers	t	6	
Ifosphamide: Alternate	u	48, 144	
Ifosphamide: Core Tox Markers	v	48, 144	
Isoproterenol: Alternate	w	24	
Isoproterenol: Core Tox Markers	х	24	
Isoproterenol: Alternate	у	3, 6	
Isoproterenol: Core Tox Markers	Z ·	3, 6	
Minoxidil: Alternate	aa	24, 360	
Minoxidil: Core Tox Markers	bb	24, 360	
Norepinephrine: Alternate	СС	24	
Norepinephrine: Core Tox Markers	dd	24	
Norepinephrine: Alternate	ee	3, 6	
Norepinephrine: Core Tox Markers	ff	3, 6	
Phenylpropanolamine	gg	3	
Phenylpropanolamine	hh	6, 24	
Rosiglitazone	ii	24	
General	زز	various	
General Core Tox Markers	kk	various	
Vasculature Agents	11	various	

GLGC ID LDA  15002 17736 15003 11531 17735 19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923 18389	93.1848 91.1968 90.1662 88.3378 88.1250 87.5598 86.8816 86.7420 86.6157 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500 83.1383	830.7404 1787.7997 733.7943 1302.1848 2908.0087 428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	762.4182 472.1444 707.5785 1147.6615 97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130		133.9170 266.0836 129.4779 216.8872 435.2275 69.8694 363.5236 332.2920 187.5873 84.1703 89.8406 52.4782 16.2336
17736 15003 11531 17735 19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	91.1968 90.1662 88.3378 88.1250 87.5598 86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	1787.7997 733.7943 1302.1848 2908.0087 428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	762.4182 472.1444 707.5785 1147.6615 97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	584.9220 74.9787 380.2217 1047.5181 248.9995 996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	266.0836 129.4779 216.8872 435.2275 69.8694 363.5236 332.2920 187.5873 84.1703 89.8406 52.4782 16.2336
15003 11531 17735 19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	90.1662 88.3378 88.1250 87.5598 86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0000 84.9867 84.6011 84.3085 83.7500	733.7943 1302.1848 2908.0087 428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	472.1444 707.5785 1147.6615 97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	74.9787 380.2217 1047.5181 248.9995 996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	129.4779 216.8872 435.2279 69.8694 363.5236 332.2920 187.5873 84.1703 89.8406 52.4782 16.2336
11531 17735 19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	88.3378 88.1250 87.5598 86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	1302.1848 2908.0087 428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	707.5785 1147.6615 97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	380.2217 1047.5181 248.9995 996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	216.887; 435.227; 69.869; 363.5236; 332.2920; 187.587; 84.170; 89.8406; 52.478; 16.2336
17735 19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	88.1250 87.5598 86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	2908.0087 428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	1147.6615 97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	1047.5181 248.9995 996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	435.2275 69.8694 363.5236 332.2926 187.5873 84.1703 89.8406 52.4782 16.2336
19040 17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	87.5598 86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	428.8572 2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	97.4225 1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	248.9995 996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	69.8694 363.5236 332.2926 187.5873 84.1703 89.8406 52.4782 16.2336
17734 1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	86.8816 86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	2678.5496 2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	1099.6429 578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	996.2423 1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	363.5236 332.2920 187.5873 84.1703 89.8406 52.4782 16.2336
1892 17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	86.7420 86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	2311.9282 1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	578.1713 474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	1178.1967 584.6204 166.4941 256.3717 283.7898 4.8459	332.2920 187.5873 84.1703 89.8400 52.4782 16.2336
17401 22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	86.6157 85.6582 85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	1311.1640 404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	474.9087 160.3726 198.1929 44.9524 43.1912 355.2130	584.6204 166.4941 256.3717 283.7898 4.8459	187.5873 84.1703 89.8406 52.4782 16.2336
22321 10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.6582 85.6585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	404.6838 555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	160.3726 198.1929 44.9524 43.1912 355.2130	166.4941 256.3717 283.7898 4.8459	84.1703 89.8406 52.4782 16.2336
10071 15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.6582 85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	555.2923 193.2422 58.2154 587.4333 721.6317 43.9754	198.1929 44.9524 43.1912 355.2130	256.3717 283.7898 4.8459	89.8406 52.4782 16.2336
15510 14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.5585 85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	193.2422 58.2154 587.4333 721.6317 43.9754	44.9524 43.1912 355.2130	283.7898 4.8459	52.4782 16.2336
14213 17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.3723 85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	58.2154 587.4333 721.6317 43.9754	43.1912 355.2130	4.8459	16.2336
17161 11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.0532 85.0000 84.9867 84.6011 84.3085 83.7500	587.4333 721.6317 43.9754	355.2130		
11530 22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	85.0000 84.9867 84.6011 84.3085 83.7500	721.6317 43.9754		193.6993	201
22499 20743 16168 1271 574 15540 17217 19710 18654 7196 923	84.9867 84.6011 84.3085 83.7500	43.9754	412 9801		89.1473
20743 16168 1271 574 15540 17217 19710 18654 7196 923	84.6011 84.3085 83.7500		1.2.0001	194.6598	129.937
16168 1271 574 15540 17217 19710 18654 7196 923	84.3085 83.7500	110 1523	12.0409	20.1660	11.362
1271 574 15540 17217 19710 18654 7196 923	83.7500	, 10.1020	18.0460	156.2806	27.2337
574 15540 17217 19710 18654 7196 923		322.1775	121.4265	171.7767	45.177
15540 17217 19710 18654 7196 923	82 1282	57.0368	11.4631	80.9952	15.3334
17217 19710 18654 7196 923	UJ. 1JUJ	997.6258	268.7816	592.6405	136.0639
19710 18654 7196 923	83.0984	222.6751	196.0708	49.6568	39.2014
18654 7196 923	83.0785	299.9600	61.9276	408.5918	
7196 923	82.8723	95.2966	31.4037	47.0879	
923	82.8258	115.9148	55.4920	221.2713	
	82.8059	241.5608	48.6689	167.6215	40.8344
18389	82.5665	80.3798	60.4940	15.2547	11.6656
	82.0745	1698.2519	653.3550	804.3228	
14206	82.0545	32.6432	13.0018	78.1153	
10185	81.9082	19.2150		31.5730	10.4042
20448	81.5359	510.4135	424.2980	65.6248	
23781	81.3098	74.7232	26.9707	38.5429	15.2727
606	81.2566	22.0283	48.8072	-43.9928	
17601	81.1968	148.6699		203.0924	
357	81.1636	75.3102	54.7364	23.9249	
18888	81.1303	18.1279		30.9872	11.1700
20983	81.0904	336.6510		482.8464	
20449	81.0040	704.6277		85.9070	
4327	80.9375	138.6356	37.5198	90.1494	
5496	80.9309	50.8946	12.7471	68.9254	13.4656
19481	80.9309	75.3548		131.9767	42.0273
1977	80.8910	384.3716		557.5178	106.1212
21663	80.7912	1000.0403		361.5352	120.1430
13940	80.6316	46.2156	17.8341	85.3171	35.6900
14970	80.5386	52.0507	17.0768	81.4804	20.098
23058	80.3258	181.5442	~	285.5204	70.946
355	80.0266	80.9323		7.7442	23.5498
1530	80.0066	140.4712	33.2319	194.9259	41.2104
18597	79.8670	286.4668	206.7383	88.5584	38.8586
24431	79.8670	278.2754		69.8804	50.493
12118	79.8338	1249.9245	697.4559	522.6811	245.1043
22675	79.8005	75.4184	38.8554		18.4798
18313	79.7872	4005.3077	732.8548	29.4800 2783.7654	675.7277

SLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1521		126.0733			<u> </u>
11422	79.7074	75.0346			31.328
21654		409.2411			
2629	79.2819	75.4973			
17908	79.2819				23.325
15349	79.1622	20.5876		5.2367	7.473
18396	79.1622	99.0622			29.008
5297	79.1223	438.7151		198.4258	
23868	79.0691	696.3200		201.9544	193.611
18190	78.9960	93.7200		143.9221	34.995
4832	78.9761	590.5971		886.5180	205.815
20919	78.9561	416.6138		297.7708	87.822
17590	78.9162	74.0367	21.4162	47.6340	15.386
244	78.9096	177.7682	130.8882	59.6868	32.347
2628	78.8564	44.9283	33.5423	9.0629	12.430
12580	78.7566	32.9518		19.1548	9.157
15867	78.7035	81.2703	45.4669	38.1658	53.493
3337	78.6104	39.5081	9.7943	56.9440	
19252	78.5572	466.7698	45.7445	567.3424	15.705
3244	78.4774	129.7236	33.9837	177.7022	97.148 32.598
16081	78.3777	202.8438	112.5844	84.0263	
15281	78.2779	170.8618	35.8977	121.2837	61.5599
1715	78.2114	150.0634	26.4880	111.5965	28.7917
20856	78.1582	823.1658	173.6071	1104.4375	27.4725
10016	78.0984	310.8434	90.6794	198.7584	180.6417
12978	78.0918	240.0713	187.0521	72.7926	58.3868
2846	78.0585	41.5447	12.8468	63.7379	27.1008
622	77.9189	27.3665	7.5757	45.8306	19.4552
23869	77.7726	161.8403	143.4543	38.7388	19.1215
20855	77.7527	539.5765	102.8442	705.3220	52.5181
223	77.6662	84.7102	79.8305	11.2148	119.7929
21445	77.5798	58.4069	47.4152	9.3169	19.4940
1377	77.5798	37.4036	11.7847	58.0973	20.3055
1714	77.5598	128.4936	26.6958	176.9989	19.4413
11423	77.5266	126.9625	37.6497	205.5892	41.1240
18108	77.4934	201.3502	36.4083		65.9685 22.5172
2150	77.4601	120.5581	20.2371	156.6728	
2555	77.4202	78.3837	37.8776	153.8331	33.2591
356	77.4003	153.3145	116.5924	45.1706	21.4351
23368	77.3803	286.7193	78.0081	37.9370	35.8682
19279	77.3604	145.1303	22.8084	410.2601	90.1102
21653	77,3138	193.7593	75.5197	175.9706	22.2452
21950	77.2074	635.8636	108.3591	114.0782	37.2720
1475	77.1676		1118.1009	771.6337	137.9339
3292	77.1343	46.3794	53.4058	79.7411	129.4689
21662	77.1210	25.1074		-2.2895	28.6104
15379	77.1210		18.0661	3.2638	10.9879
3600	77.0811	69.7288	26.6900	110.1162	36.4938
6606	91.6955	351.9825	98.1033	482.5987	117.8029
15004		4153.5723	1137.7211	1800.9361	632.4547
21796	88.8697	1169.7455	600.2896	309.0121	203.5315
3014	88.5705	502.8636	147.4609	261.0573	79.3455
3014	88.4508	112.1745	49.0365	253.1593	72.1640

<u></u>	ABLE 5A: ADRENERGIC AGONIST		Atty. Ref. 44921-5090-01-WO/21054		
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23038	88.0718				121.6543
7665	87.2407				63.9044
23123	87.0080		184.4459	312.7660	81.1612
7414	86.6356		97.8829	296.5660	52.2979
11684	86.5160		43.7081	193.3221	50.5289
22197	86.3497	246.4543	83.2983	114.9586	42.9903
24246	86.2832	406.3073	78.4021	269.3370	65.8177
22378	86.1237	156.7941	51.2980	274.8932	59.2517
24209	85.1263	84.9209	55.8163	0.6268	38.9410
5461	85.0731	227.7101	79.5985	115.4327	36.2758
21632	84.7340	486.9037	172.5911	193.9329	83.9131
18206	84.4415	298.2611	43.6493	219.0292	50.4482
3669	84.3152	54.9250	16.7575	26.5427	16.7630
24022	84.0691	60.1513	17.4583	103.0718	26.3162
17540	83.8830	614.5749	238.0756		100.1111
12664	83.5705	53.1247	29.4909	114.3550	32.5444
15042	83.5638	125.6087	59.0746	41.6963	32.6660
10072	83.4574	256.6850	119.5995	103.8417	62.8821
16154	83.4043	161.8671	82.4309	73.5311	71.2638
2742	83.1782	-100.5665	101.5237	59.4249	79.4204
6632	82.8191	210.1464	58.6494	121.7572	39.1467
22432	82.7992	212.3237	57.3487	121.2644	31.8172
18598	82.5864	101.0807	72.7916	-0.8437	35.2601
2459	82.5665	1207.7704	889.6888	93.8630	160.0823
12086	82.4934	37.5563	11.7940	58.1680	16.2987
23725	82.4867	326.7101	61.7201	218.5422	62.4451
8494	82.4535	619.4279	83.5414	459.5236	98.6579
2301	82.4402	75.4272	15.8549	116.2465	30.8618
23964	82.3072	142.6538	32.3372	84.4648	29.8075
4420	82.2407	310.0578	85.6928	450.6251	91.3693
8495	82.2207	177.6911	31.6153	130.5767	28.8121
14494	82.1875	172.9672	31.0657	227.6112	36.8642
15283	82.0213	405.2720	78.5347	303.0143	67.4546
9317	82.0146	500.5706	75.1872	682.2943	145.5965
11426 13634	81.9947	337.2493	90.1085	553.0815	151.4891
	81.8750	1369.2711	485.0771	806.0391	179.8525
19387 24051	81.8617	536.2792	140.6484	364.3634	84.4545
13460	81.8152	94.5799	22.7796	145.6245	33.8169
6412	81.7753	218.7623	66.2870	337.3528	64.6869
9611	81.7686	13.4985	5.4822	27.2459	12.3818
4074	81.6223	12.2893	25.4226	57.7584	32.7127
6548	81.5891	7.4619	29.5408	64.5731	43.9488
12946	81.5226	375.7787	105.0735	210.2905	78.2200
20035	81.5093 81.5027	148.1603	34.5002	220.6648	40.7063
3905	81.4960	346.7378	149.5983	164.0392	57.3486
12979	81.4827	170.3486	48.0159	90.3576	60.5419
22545	81.4827	966.0172	724.9628	294.8817	100.1571
21660	81.4561	128.2348	54.8824	203.6431	60.8249
18529	81.4362	2382.4932 447.6552	487.4179	1592.8149	514.8672
22666	81.3963	182.6728	91.3266	285.9677	71.7319
21166	81.3963		89.9086	75.6578	31.7036
21100	01.3303	531.8921	175.0606	305.9588	75.1422

TABLE 5A: ADRENERGIC AGONIST			Atty. R	ef. 44921-5090-0	01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15277	81.3497	1029.9606	170.9360	793.9735	149.6945
18830		9.00.1707	1748.0224	3626.8283	865.9063
16053	81.2699	351.6101	280.9336	111.1993	59.6347
8938	81.1769	21.3583	23.4652	73.0730	34.1501
22591	81.0904	50.7375	12.5625	74.8265	17.9028
21185		441.0886	76.5297	604.5507	
21785	81.0439	163.0715	48.9946	93.7917	

·	ALKYLATIN	G AGENTS	¥ .	Ref. 44921-5090-	01-WO/2105485
	LDA Score	Mean Tox		Mean Nontox	SD Nontox
25468			2917.1199	6144.3127	2425.3955
20225			12.5776	97.4470	
25600	83.8852		7.9918	70.5631	19.5326
25469	83.6459	1791.5476	2180.0380	4544.7412	1788.2424
17160	83.2440		214.1597	1697.7590	423.3836
1684	83.1196		3556.7192	6788.5893	2953.7997
4565	82.6651	24.4325	9.4147	43.6687	14.1960
10320	82.3493	47.9014	12.0588	80.4636	26.6369
4474	82.3397	73.5205	23.9619	38.7337	27.3163
20440	81.9522	23.8482	22.9362	51.6998	18.9559
20313	81.6890	11.6843	11.8859	29.5962	10.7195
455	81.6029	3635.2910	906.2374	5012.3749	1060.9043
20450	81.5694	48.8815	13.0695	73.0041	22.3154
309	81.4976		79.2127	476.1954	81.2001
8269	81.4211	15.6709	4.3619	21.9461	9.5169
15573	81.3493	84.8163	10.9516	105.8035	18.1005
16947	81.2010	53.0476	11.7092	76.8846	21.9556
15083	81.1914	34.2199	13.4606	68.3728	27.2558
25496	81.1292	204.2343	26.9706	157.0878	37.2108
25495	81.1292	178.3991	19.0513	140.0664	33.9639
6654	81.0574	57.3908	16.9442	32.3728	13.5276
22355	81.0431	18.9000	5.0085	32.1376	12.8167
25705	80.8900	543.7402	141.5809	357.5528	114.8227
24228	80.8804	279.7133	119.0250	157.8901	45.9909
381	80.7368	19.6870	6.7439	29.2547	10.7027
24643	80.6029	169.1690	56.3307	68.4159	74.1271
22583	80.5598	18.3818	5.5890	24.0195	5.7511
2413	80.5072	745.6790	62.8685	623.5517	103.7641
4684	80.4880	87.7172	15.7335	55.6888	21.8841
2832	80.2967	123.6875	17.2399	151.2548	23.9115
15846	80.2440	33.1607	19.0091	68.4972	33.9424
26039	80.1818	57.8518	11.0042	75.8213	15.2461
298	80.0431	37.0221	12.7922	59.1687	23.4624
1108	80.0239	18.0748	7.6995	33.1729	11.8817
20073	80.0144	7.9412	16.4752	40.4131	19.1797
10248	79.9282	376.3496	53.6001	306.4258	85.4251
767	79.8565	4.3235	13.7955	23.0547	15.9343
1894	79.7847	295.3987	119.1209	147.5070	73.9222
18864	79.7799	132.5974	18.7576	166.8307	35.1741
13595	79.7703	76.1675	12.9824	97.0513	18.1780
15056	79.7273	6.2067	6.1665	22.2468	15.6667
385	79.6986	19.5439	15.0876	46.3407	22.6844
17427	79.5837	318.0867	65.6813	220.1336	64.8948
20536	79.5837	37.0290	24.7335	11.5981	22.3424
200	79.5598	55.6074	13.1527	79.4381	22.5161
24473	79.4450	147.2555	34.7970	207.7485	46.3524
18895	79.4450	120.9271	21.8233	163.6937	34.7664
16448	79.3828	96.2256	119.9279	285.0267	130.8231
17154	79.3636	1193.0218	321.9846	854.9913	204.4564
20732	79.2440	13.7055	5.1709	23.4555	9.0599
9073	79.0670	39.3991	11.2447	21.7348	14.0843
17923	79.0335	75.8414	12.2287	104.9544	26.5959

	ALKYLATIN		·	Ref. 44921-5090-	
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
25572					
18867	78.9234				58.912
20998				278.2811	80.119
18032	78.7703			89.4354	
16934	78.7512	59.1653	16.5814	34.9678	
22150	78.7416		42.1239	150.5825	44.288
20864	78.7177	9.1197	8.3097	24.8080	14.9622
20224	78.6555	25.7235	11.4037	54.8352	23.4610
14543	78.6459	41.7789	18.8904	4.6710	27.2678
21928	78.6029	26.2219	9.3320	40.2590	12.3799
8587	78.6029	21.3555	10.7080	42.0994	16.825
25752	78.5837	25.6894	42.8635	-49.0965	50.2743
167	78.5598	385.7359	146.7072	589.7799	173.848
20554	78.5598	37.0486	18.4306	76.2388	36.7772
23215	78.5072	76.8105	11.1928	100.4547	26.8897
16018	78.4354	258.9146	45.4960	201.5170	58.2273
15990	78.3493	87.3962	18.5131	117.5183	26.5665
15917	78.3397	70.4733	26.2187	18.9494	42.6290
25525	78.1722	124.7945	36.3359	78.6745	47.6384
25770	78.0144	91.4328	51.3572	161.4990	59.9291
23294	77.9378	125.3066	16.9407	158.0675	35.6768
25659	77.8852	37.2458	13.2464	90.6507	61.2556
25262	77.8756	29.1337	6.8117	42.6468	14.5241
21013	77.8038	232.9595	46.2884	183.4911	49.0195
25765	77.8038	39.7965	17.4557	66.0129	19.3064
8844	77.7799	27.1377	10.8488	55.1368	26.7064
20754	77.6986	52.0605	10.6921	71.2943	15.0357
24597	77.6794	622.3761	105.4979	480.5779	107.3116
25790	77.6459	39.4384	14.4912	59.6624	16.2379
20779	77.6459	160.1499	17.6749	123.7358	27.7988
2881	77.6029	297.0551	79.9493	399.1987	92.4773
17214	77.5646	144.7695	33.6226	105.3812	24.3444
20509	77.5072	23.2482	6.0971	36.1861	15.1089
4242	77.4163	323.5089	80.1901	238.1027	64.1769
13882	77.4019	757.9745	193.5464	1049.9153	293.9675
11218	77.3828	66.3258	39.0734	128.6068	49.1323
20549	77.3589	33.1582	11.8610	50.5349	19.7998
18023	77.3493	45.3195	12.0265	64.6300	17.5364
31	77.2344	59.3374	11.7844	78.8431	21.6135
25232	77.1388	19.7318	7.8509	34.4586	15.7297
1948	77.1100	136.4836	36.7570	81.9549	42.8659
15777	77.0861	20.3161	7.1718	35.9811	18.4974
13283	77.0335	13.0325	4.6449	21.3358	9.3227
17226	76.9952	252.0797	52.3846	189.5066	46.2914
20878	76.9904	28.4037	7.4850	39.7258	
22205	76.9713	889.7006	90.5304	762.5673	15.8441 130.2308
25235	76.9282	21.8555	3.4653		
4235	76.8995	407.8426		28.8335	9.5388
461	88.3684	58.8866	55.6413	323.2472	67.5158
10453	86.5072		10.7413	100.2864	30.1009
23096	86.4976	54.6916	28.6474	133.6145	48.4319
5969		305.3999	77.1263	103.2969	113.9204
2909	86.0335	582.3748	81.2828	425.0370	122.6622

GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15084	85.6651	82.7205		198.7021	
22771	85.6651	543.5028	64.0967	384.5877	
3094	85.4641	39.5089	13.9797	87.5210	
3352	85.1818	686.1273	133.8193	444.0767	
19358	85.0670	749.4440		2499.7431	927.542
6458	84.5694	10.2135	8.2076	34.5288	
9171	84.4641	83.4184	21.1652	125.7671	37.297
17832	84.3828	1873.7747	2756.4346	5678.4901	2278.955
1687	84.3301	1518.0092	2149.3647	4500.8610	
4151	84.0957	398.7729	74.0807	605.7236	
1689	83.7512	3534.9897	4805.9317	9151.5643	
6092	83.5694	14.9530	7.8629	27.7916	
8712	83.2871	76.7061	30.7397	9.5956	49.148
13802	83.1914	86.8262	20.4133	140.1087	38.480
2813	83.0335	345.9580	80.9262	230.5143	104.416
8291	82.6124	29.9570	8.6052	52.6233	17.745
17089	82.5502	1436.7260	238.9832	1082.6013	400.261
3781	82.4976	-3.7295	24.1581	30.8117	26.021
12805	82.4641	64.5057	23.9316	11.2774	53.472
19944	82.3589	124.7257	31.3315	230.2468	82.979
16652	82.3493	80.1161	33.8281	126.1162	39.891
11563	82.3301	207.7992	49.7971	115.4617	54.559
14530	82.1196	98.2636	21.6303	68.0352	19.195
21364	82.0861	95.9159	78.2647	264.3087	122.682
16335	82.0574	72.0214	170.4047	269.4336	133.295
5913	81.9713	41.5357	16.7042	77.0752	24.014
6917	81.9522	207.1085	70.5504	107.6603	60.965
14594	81.8469	23.9145	32.6840	-21.2989	26.181
9788	81.8230	122.9006	46.7684	207.8074	64.552
23043	81.7799	122.6782	21.5207	172.4627	44.192
2880	81.6746	37.0159	14.8125	61.6067	21.700
14337	81.6651	239.9225	32.1748	308.3251	50.508
5726	81.4545	59.7409	16.5892	92.9327	28.677
9521	81.3493	65.8090	13.5422	92.0760	22.279
8440	81.3301	156.6240	30.9800	104.9144	36.109
17495	81.3206	544.9712	92.4873	375.0940	90.950
7060	81.3206	383.8079	117.4177	296.2564	75.505
21119	81.2967	191.4324	26.9123	239.7644	45.352
1182	81.2871	70.2302	18.8770	107.7135	26.230
15786	81.2775	149.8647	38.0848	88.9610	41.477
6789	81.2584	636.6515	175.1664	462.0210	85.307
6658	81.1818	90.9486	22.1946	135.2010	31.239
8515	81.1722	284.2977	162.9443	519.0955	137.703
11561	81.1100	101.8620	27.5891	64.7334	22.709
9801	81.0957	127.8069	29.6080	206.6474	71.152
8356	81.0335	126.3052	28.1786	178.4201	42.6519
17614	81.0239	114.4329	43.6818	184.2400	51.706
1685	81.0144	8546.8465	11550.1541	16297.7927	9670.146
9186	80.9809	20.6067	24.7195	53.3468	31.258
24012	80.9426	1380.0285	367.9359	922.5454	231.868
24129	80.8660	97.4502	24.3140	148.3880	38.596
17917	80.8565	49.7315	112.7341	-210.2743	164.005

TABLE 5B	ALKYLATIN	G AGENTS	Atty. F	kef. 44921-5090-	01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17892	80.8230	133.1790	82.8102	500.4147	308.6848
23385	80.8230	34.8506	19.6899	67.4320	26.9774
2214	80.8134	23.1353	15.6220	48.1076	19.1854
11632	80.7703	245.8868	52.8498	339.3667	77.4808
13887	80.7608	42.0020	14.9669	76.6187	25.7957
16713	80.7512	245.9244	52.1236	336.8610	64.0700
6276	80.7512	36.0211	47.9516	103.7553	45.6000
9409	80.7273	32.7671	11.1490	55.0538	23.5680
11628	80.7081	203.6646	44.9926	304.7981	79.1293
8468	80.6124	152.0274	44.8297	257.8287	84.3043
18691	80.6124	2396.4705	628.0103	3968.4435	1196.6683
6334	80.4880	366.9402	55.6784	300.3871	52.9436
21990	80.4450	97.6227	50.6873	16.0942	66.0429
3319	80.3923	16.8291	13.8402	35.5651	15.6556

Timepoint	(s): 120, 168	hre	Aug. 10	ei. 4492 i-3090-0	1-WO/2015485
SLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20065	99.2723	183.8997	70.9952	27.0773	23.5970
17829	99.0125	165.7909	131.6683	4421.0631	1923.2910
25468	98.9085	36.6577	64.2024	6119.8636	2438.1822
25469	98.9085	63.2684	50.1188	4528.3633	1796.1027
1684	98.7526	89.0179	122.2818	6770.3787	2960.1914
21938	98.7006	231.2675	91.7444	72.0647	24.0884
19255	98.4927	44.9176	24.3850	228.8471	100.5140
19256	98.2328	117.1460	52.0641	416.7285	142.5050
20482	98.0769	5168.1262	986.3126	1597.9097	904.7746
18883	97.6611	158.0252	29.5322	67.9355	25.7012
1174	97.5052	29.3875	14.7446	-49.4517	23.3909
18907	97.4532	17.1561	12.0112	446.2084	255.5783
16448	97.4532	49.2018	12.3050	283.1604	132.0897
16924	97.4532	14.3123	39.7356	227.5564	105.7147
4594	97.1933	20.8843	8.3975	87.7948	53.1804
956	96.8295	56.2043	24.1425	221.5609	95.7116
18881	96.5696	42.5293	9.7059	18.4425	7.7913
16610	96.5177	441.4807	35.9444	757.8194	180.8820
17227	96.4657	617.3444	94.1237	374.3329	70.7076
17760	96.1538	497.1910	48.6205	303.5142	78.3806
15056	94.9584	0.6888	2.5754	22.1041	15.6263
25765	94.2308	30.6901	6.3798	65.7805	19.4180
24775	94.1268	4.3639	8.9454	40.0668	20.4915
1586	93.9709	153.0619	16.0525	102.3870	23.5273
9223	93.9709	-2.5494	13.2241	59.7208	46.1898
24506	93.4511	20.7437	16.1857	93.1557	47.7833
4418	93.2952	31.9637	4.3417	34.4959	29.6694
2079	93.1393	1233.9396	75.7770	1579.3870	253.4903
20888	92.8794	745.0763	70.1047	490.9188	132.2520
21623	92.8794	1333.2177	151.5873	1989.0003	390.5994
17599	92.8170	301.5754	145.1718	67.4111	46.5538
23225	92.7235	12.3479	5.7285	90.0362	220.5098
25517	92.7235	38.8209	17.6003	164.9523	104.4392
17226	92.6611	359.4217	64.3602	189.1713	43.8908
14966	92.4636	-29.1245	18.8958	40.2943	45.7010
1522	92.2557	308.6408	59.6964	163.1935	73.1540
22773	92.0998	255.7841	74.9933	460.0795	111.7997
11152	92.0894	557.2671	220.7868	211.5257	80.2627
16925	91.9335	512.6284	202.3815	979.1897	171.7185
23778	91.4761	23.6922	6.0522	57.9147	31.2877
17541	91.2578	198.5566	46.9188	81.2000	50.4977
16018	91.0499	323.8912	34.7586	201.5575	57.4594
20073	90.6861	0.9459	5.7273	40.0808	19.4090
4405	90.4366	15.8925	3.3639	25.0584	13.1488
24695	90.3742	453.4644	75.2141	299.0488	61.7532
25676	90.2287	59.5410	41.7671	167.6913	66.3227
17727	89.9064	577.4152	53.1830	411.9085	74.7992
18065	89.8545	116.8633	24.0688	63.5006	21.4720
14968	89.8025	96.0389	40.7561	255.4619	81.4502
6108	89.6985	752.4260	142.3411	469.9789	105.7585
21695	89.4491	-9.1950	9.6046	35.1283	73.3789
22435	89.3867	1158.4434	173.1666	735.9354	

	: ADRIAMYO		Atty. R	ef. 44921-5090-0	1-WO/201548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17759	89.2827	149.5568	14.5193	84.5285	36.3592
21746	89.2308	816.6727	103.5026	513.3917	
10498	89.1892	1497.8929	48.1531	1378.3258	
16426	89.0229	634.7232	367.7003	1682.6068	
16217	88.9293	1472.9648	370.2267	2337.2435	632.6166
1291	88.8669	392.3356	52.9019	255.6265	54.9647
17731	88.8150	170.2621	34.1005	85.8118	43.3807
436	88.7734	78.5997	6.2549	58.2561	17.3686
25770	88.7630	52.9155	31.2005	161.0254	59.8719
9388	88.5551	36.0405	19.5702	-58.0892	46.8516
1867	88.4615	780.5661	39.6208	651.7755	124.5667
19646	88.3576	75.7858	16.9079	149.3923	60.3960
16780	88.3472	111.7912	19.0973	70.4368	20.0443
16926	88.1913	597.8380	183.1247	1064.0928	211.8961
3203	88.0873	490.6298	67.5512	351.1566	73.4231
16228	88.0873	1.8880	13.9522	45.7859	27.5614
3244	88.0353	236.9812	39.9570	175.4901	33.1031
1845	87.9418	-35.4912	18.1201	50.3417	75.5274
12299	87.8690	789.9328	138.4112	431.7056	111.2095
767	87.8274	-4.0207	11.9887	22.9078	15.9351
4450	87.8274	653.2107	95.7838	463.9743	94.0993
15570	87.8274	250.1856	112.2506	625.2026	205.6496
20971	87.6819	114.4825	5.4332	92.3298	20.5939
17057	87.5780	76.2930	6.5559	58.1030	16.5216
9501	87.5676	161.4916	20.5486	118.3188	23.2574
17285	87.4636	337.5447	23.6994	238.4030	68.7203
15569	87.3597	138.4769	81.8986	454.1432	185.9486
20816	87.3077	405.3420	105.9939	780.2926	230.1953
3430	87.2973	214.2634	88.1351	106.9822	26.1705
20960	87.2661	664.9480	46.3234	520.9765	116.5653
15517	87.2141	44.6913	7.7999	69.8491	20.3743
·19040	87.1622	172.6411	24.4019	255.7760	77.7245
5159	87.0998	318.5259	70.6302	172.3592	76.4086
17742	86.9854	30.4573	23.9803	-4.7075	9.8579
3431	86.9335	1176.3691	361.7949	617.0483	144.4116
16649	86.8919	357.9935	33.4191	258.8069	55.7162
18867	86.8295	384.3156	106.1680	180.4287	69.4099
4130	86.7360	105.3641	54.5557	243.3050	74.1218
16716	86.6944	158.3732	16.1545	219.5175	55.3518
24354	86.6944	29.2853	4.1889	14.8199	15.0056
1803	86.5800	197.6202	27.0128	148.6496	26.7689
15957	86.5281	176.1742	109.7266	367.4182	101.7904
16520	86.5177	86.0059	29.0386	42.2329	18.0939
11384	86.4865	46.1577	5.5310	33.2389	10.9879
15052 17301	86.4345	2047.1863	228.9277	2747.7425	646.9050
25716	86.3721	207.3871	108.1265	504.5765	154.1255
1323	86.3306	423.6299	94.7456	813.2816	361.4851
	86.3202	326.3527	54.9693	182.5352	77.4476
1687	98.8565	82.8701	42.5093	4478.5712	1762.4439
1689	98.8565	83.5162	88.7163	9117.3811	4011.1269
6073	98.8046	-23.4120	6.7898	63.8808	46.0409
17832	98.7526	35.6451	35.6118	5650.1374	2300.8816

TABLE 5C: ADRIAMYCIN. Atty. Ref. 44921-5090-01-WO/2015					
Timepoint	(s): 120, 168	hrs	00.7	Mantaga (	ICD Norther
		Mean Tox	SD Tox		SD Nontox
26150	98.7526	5.8999	46.3755	3017.0252	1982.7759
19358	98.4407	128.9540	60.4569	2484.3599	939.6377
1685	98.3888	241.5861	165.9362	16287.4406	9692.8631
3780	98.3888	2187.1981	696.9890	308.2735	265.9432
1688	97.9730	143.6612	153.4284	9096.8112	5251.4573
2142	97.8690	114.9472	27.2867	-4.6144	40.7838
6276	97.5572	-1.8410	8.4152	103.3040	45.7359
21206	97.5052	111.3423	20.6905	-8.2238	44.4836
23115	97.5052	275.7943	51.5085	131.3923	55.0440
6059	97.0894	56.1530	14.9334	129.2172	34.0351
1686	96.7775	-356.6447	90.3239	51.4239	168.8423
4930	96.6736	606.4752	64.1424	358.1455	95.2190
5507	96.2058	480.9383	116.1597	1109.3895	300.9933
17761	96.1538	748.3425	80.4399	452.8424	114.6100
11372	96.0499	90.7225	34.9830	263.2703	80.0173
14604	95.5821	298.7850	52.7556	584.8230	153.8914
12450	95.4782	471.8425	103.1775	924.4552	227.0174
11017	95.2183	16.6967	16.2266	104.8072	46.8270
10780	95.1663	345.7198	67.6483	191.4259	56.3170
17830	94.9064	-7.6949	5.1508	49.0813	42.5974
11724	94.7505	26.0631	12.0626	109.3173	47.9814
6997	94.5426	79.2642	30.2114	188.0745	56.7248
11227	94.3347	832.7849	40.8394	1173.5756	267.1579
17762	94.2308	730.4753	71.4551	508.3838	106.3994
17220	94.0748	224.2669	20.5587	372.5064	93.4378
16293	94.0229	108.0721	31.6073	217.9964	58.4308
8445	93.9189	35.5784	7.9567	9.0655	16.5974
3368	93.8669	48.2527	7.5780	24.8418	19.4550
12011	93.8150	489.1382	31.7598	655.5020	104.9197
18513	93.7110	124.8409	46.0884	285.5847	99.4405
13116	93.5031	291.3307	20.1486	223.3274	37.7300
14257	93.4511	101.8823	52.7822	279.1938	
12582	93.3992	-3.6689	8.4496	44.9685	27.3215
13082	93.2432	24.9612	6.3814	-9.3904	26.1971
18528	93.1913	173.4085	49.5727	439.3200	173.2623
2852	92.7755	166.4303	85.8937	432.7807	134.9900
2782	92.7235	99.1453	22.4863	55.6580	44.3586
14337	92.6195	227.2382	17.8487	307.6037	50.7651
4049	92.5676	96.1146	31.5224	43.6756	131.4153
19474	· · · · · · · · · · · · · · · · · · ·		<del>}</del>		
10930	92.5156	<del></del>			
23957	92.4012			<del></del>	
20738	92.0998	<del></del>			54.1323
9775		<del> </del>	<del></del>		
16003				<del></del>	
3085		<del></del>	<del> </del>		
7292		<del></del>		<del></del>	
4716		<del></del>	<del></del>	<del></del>	
19451	91.7360		<del></del>		
3269	91.7360				
17644			<del></del>		
23012		<del></del>	<del></del>		

TABLE 5C: ADRIAMYCIN Timepoint(s): 120, 168 hrs			Atty. Re	ef. 44921-5090-0	1-WO/2015485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14861	91.4761	52.0096	7.7895	33.9505	11.2329
6658	91.3202	82.5245	17.0202	134.7365	31.4251
5322	91.3098	30.7770	13.0747	-10.0923	19.8566

	): ADRIAMY( t(s): 6, 24 hrs		Atty. Ref	. 44921-5090-01	-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
643	99.3243	216.9566	142.7145		11.4535
20082	98.9085	165.2679	36.6385	64.8118	22.9240
910	98.5967	81.2270	30.1697	25.0230	9.4725
17541	98.4927	338.5557	77.7199	79.7447	44.3402
1169	98.3368	84.6623	6.2572	48.6961	12.1453
20506	98.3368	44.8637	10.3246	19.9840	6.1565
912	98.2328	606.8919	57.5386	379.7166	61.7792
25705	98.1809	969.4127	177.3847	355.4504	100.2820
1170	98.1289	129.9053	7.4611	74.3075	19.9617
18403	96.3098	1700.8952	143.8684	2752.9468	558.3881
15956	96.2578	90.6138	10.4705	51.1452	16.3615
1503	96.1019	103.7368	15.6676	54.6586	18.6767
19238	95.8420	110.7431	13.8001	196.2968	48.1984
18654	95.0104	72.0700	35.6079	219.3176	64.0544
24219	94.0748	416.8151	49.1940	295.3830	84.8118
1841	93.5551	106.7482	12.8901	60.8845	27.6218
634	93.0249	361.5323	117.1735	93.8808	48.1614
21975	92.9834	259.5442	22.8223	180.7023	79.8230
911	92.6611	37.9401	28.6107	-19.3470	24.2912
18647	92.6195	249.5819	17.4494	173.6777	54.1203
16714	92.4532	30.4504	6.9013	12.1320	5.3544
18706	91.9439	415.0758	123.4227	1163.5138	504.9233
4325	91.9335	63.3989	14.4718	28.7876	11.2487
1497	91.6840	1644.8464	189.9219	2685.9776	946.5933
15150	91.5800	95.3715	15.0073	154.5278	39.0994
11865	91.1123	35.8316	6.2345	64.6226	19.4464
20740	90.8940	804.7740	146.0843	447.8767	140.3697
15402	90.8524	242.9727	21.7656	331.3109	61.9613
20801	90.6861	126.2442	20.7386	78.0618	
6653	90.6445	185.4673	19.4279	131.5378	18.0951
4504	90.3222	304.6935	83.1008	164.7594	35.2556
52	90.2703	121.3335	27.1611	73.6168	52.9684
20724	90.1767	30.8177	4.7813		21.2811
20982	89.8545	117.2682	31.4452	17.2729	11.3466
11857	89.3971	43.7652	10.1433	222.4598	50.1804
15884	89.3451	500.6086	60.3145	97.7911 724.0523	43.8492
22646	89.3347	112.1522	19.2104		187.8326
15391	88.8669	575.7964	61.0521	68.7152	17.3910
20177	88.5135	13.6744	10.3461	383.9391	91.6424
1638	88.3576	110.5316	10.5506	42.3135	19.1616
21657	88.2432	1364.8628		153.0325	50.0039
322	88.1809	59.4921	180.0082	951.9256	227.3234
4477	88.1393	27.0503	26.4817	18.7707	10.4430
635	87.8170	278.4199	7.0810	14.4620	5.9998
7927	87.7859		126.0403	92.7541	36.8862
15269	87.6715	88.2266 296.3984	7.6636	64.7494	21.2123
5733	87.6611		14.3654	233.6963	46.3899
18655	87.6195	30.5929	18.7185	-0.0338	6.7457
17661	87.5156	58.6545	32.8191	156.4812	62.5568
20483	87.4636	277.5417	36.7459	189.1638	49.1745
1396	87.1414	2157.1056	652.1908	4036.7914	1012.8776
17936	87.0998	37.6173	12.6511	20.5672	6.2547
11930	67.0998	45.0405	7.1106	28.8256	10.6275

	: ADRIAMY	•	Atty. Ref	. 44921-5090-01	-WO/2105485
GI GC ID	(s): 6, 24 hrs	Mean Tox	SD Tox	Maan Nantai	ICD No.
					SD Nontox
22903	86.8919		16.6708	198.1381	29.6702
25550	86.8295		65.5518	118.0982	
25104	86.7464		24.8995	174.3623	91.0804
15707	86.7464	19.1016	5.2982	45.7955	24.2428
9084	86.6944		5.9793	42.6019	15.6389
20959	86.6944			219.0742	62.2940
20448	86.6320	149.8320	70.9074	79.5449	131.0411
15460	86.5904	105.8124	11.3399	103.1174	74.2204
20619	86.5904	8.7819	3.4581	22.1526	13.3341
24279	86.5800	24.9137	15.3730	-8.8212	19.5805
4235	86.4761	440.9827	50.9818	323.9580	67.5564
15642	86.4657	471.4492	90.6235	261.8865	66.5316
6499	86.0603	26.4101	18.4710	67.7942	25.1315
1498	85.9667	1828.3416	477.9028	3037.1137	1026.7384
25907	85.8940		14.8217	7.2962	10.2408
16221	85.8628		99.4201	749.3613	303.1582
2881	85.8524	248.3743	36.6335	398.4306	92.5954
18389	85.8004	214.1060	148.3985	840.1938	467.3910
16518	85.7484	1047.5740	127.2169	770.9344	277.9102
1298	85.6549	45.8414	7.7269	25.8116	21.4468
8899	85.6445	1148.2060	114.5846	885.3715	149.8441
14995	85.6029	21.5158	5.3712	11.3393	16.3173
23340	85.5925	180.8155	58.3779	246.6393	47.2515
18731	85.4886	224.1048	21.9383	168.9408	32.7527
20916	85.4782	71.4310	19.9888	39.3071	14.0772
1760	85.2807	119.4358	30.8964	183.4883	42.1376
25290	85.2703	689.4077	164.7814	387.2016	107.0111
25589	85.1871	331.9741	32.5161	255.7043	60.6365
16419	85.1767	371.6173	29.5948	297.6059	53.4572
20461	85.1351	55.1955	13.7311	86.3242	45.4222
11353	85.1247	63.3792	10.8105	45.6297	14.4738
16123 15281	85.0104	202.3612	59.3562	104.8820	47.3069
	84.9688	166.7673	28.0582	122.4601	30.0519
25650	84.8233	21.1735	8.8572	46.3942	26.6247
22196 13358	84.7609	70.2694	7.7501	49.8076	17.7310
I—	84.7089	39.8028	10.2977	24.4382	10.4002
17658	84.5530	71.5205	14.8852	41.0076	20.4000
1834	84.5530	8.8770	2.9883	21.1344	12.8485
19864	84.4387	38.7348	8.4642	19.6016	10.4356
363 882	84.3451	21.1611	19.4238	45.2277	20.3060
	84.3347	58.0744	19.1515	21.1244	14.8712
17264	84.2931	40.0066	5.1747	27.0710	8.2749
13420	84.2516	539.8793	61.9590	449.4794	101.2766
11454	84.1788	346.1348	92.1226	208.8677	61.9861
21007	84.1788	241.3877	56.8287	110.2139	87.7943
1037	84.1268	43.2151	15.4363	13.8391	18.6849
22411	84.0748	165.2394	47.3941	91.9562	36.9579
20065	84.0644	190.9918	130.8571	27.0036	20.4934
14718	99.5842	230.6674	92.5533	24.3979	17.5884
10345	99.4802	785.7281	263.4749	109.0319	43.9117
21353	99.3763	619.7295	135.9931	249.8067	54.2198
5689	98.8565	92.1895	15.8960	15.2510	19.4734

	: ADRIAMY		Atty. Ref	. 44921-5090-01	-WO/210548
GLGC ID	(s): 6, 24 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18525	98.8046	247.4470		83.6691	20.9258
21361	98.6486	147.2292		77.8154	20.5116
18744	98.3368	233.1903		108.4112	28.0388
21254	98.3368	328.6679		620.6906	
4107	98.2848	287.3556	71.3956	108.7256	67.6220
4730	97.8170	550.6699	113.3865	1080.5117	209.6997
12802	97.6091	282.1259	49.2121	144.4730	34.5800
3932	97.3493	225.9943	24.7725	399.0604	84.6947
2856	97.2973	711.0095	112.6609	1241.6349	244.2494
12662	96.7775	23.0931	8.1247	86.0459	31.0034
12346	95.3222	110.3221	20.4632	683.4106	437.6173
15959	95.2183	130.9661	43.3624	284.5307	67.5813
22261	94.7505	78.6864	10.2432	41.9082	16.7031
15197	94.5426	183.6678	36.5280	312.3558	63.2669
8786	94.2308	364.1967	47.0109	261.2237	46.3004
5430	93.7526	95.4299	30.6522	23.1385	11.6235
21275	93.7526	588.1090	149.1494	280.4007	62.0459
6550	93.6071	282.7144	36.3233	453.0715	99.9325
9649	93.2952	22.8734	10.8883	73.5961	32.9098
19729	93.0769	294.7338	58.5447	104.6943	58.8170
22490	93.0353	562.3828	33.0440	440.7810	76.6241
14594	93.0249	62.1960	25.5700	-21.1329	25.8521
11761	92.9314	90.0729	18.6131	158.6863	40.7323
13966	92.8794	153.8149	18.0076	104.6423	27.4724
3740	92.5156	255.3806	20.7166	183.4331	
2341	92.4636	360.3613	21.4285	257.4395	40.9137 68.5038
23831	92.4116	333.1632	29.7634	244.7664	55.8627
2661	92.4116	45.7200	21.1768	-68.4445	135,4444
2655	92.2973	399.7943	115.7514	177.9087	66.9156
6357	92.2037	380.5703	17.8610	308.6225	44.8102
14524	92.1933	160.2642	37.6385	74.1406	22.8551
6039	92.1414	880.5708	128.2510	563.6415	89.7156
4866	92.0894	353.6625	66.7457	186.8359	112.6854
7524	91.9854	867.7427	119.4344	559.3273	92.3745
3242	91.8919	149.1652	21.1623	252.5094	83.0593
8980	91.7775	93.2571	24.9282	44.7612	14.5846
6121	91.7256	32.3956	10.0648	11.1461	8.1731
14028	91.6216	274.8718	46.6289	122.5672	55.7250
16752	91.5281	26.0467	17.7967	108.3065	52.2097
15645	91.4137	897.7752	238.9347	459.8227	155.6830
24012	91.3098	1729.6850	410.6969	924.6174	
21757	91.1642	75.1816	6.6705	54.0852	229.0811
16493	91.1123	149.5420	28.0005		17.9561
18885	91.0603	147.5520	8.9873	224.4010 117.6945	49.8893
14525	90.9459	35.2680	6.0949		23.2465
11901	90.8004	321.5218	26.4281	13.2939	9.0161
23444	90.8004	380.3160	32.3748	200.4564	94.9507
12529	90.8004	178.6648	13.5051	290.4801	51.9021
9380	90.7900	28.9561		263.5560	77.6532
19828	90.7380	146.9447	34.5402	181.8779	73.5947
17489	90.6445	1017.3793	22.3959	81.0911	27.0328
4770	90.5925	190.6164	54.3100	1260.2779	224.7209
	30.0323	130.0104	6.5190	172.1854	45.3478

TABLE 5D: ADRIAMYCIN Atty, Ref. 44921-5090-01-WO/210 Timepoint(s): 6, 24 hrs					
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
15416	90.5821	100.5402	25.4513	50.1430	23.0422
9942	90.5821	520.4679	58.6501	329.0809	80.4027
6758	90.4262	40.7626	12.4545	15.5272	11.1309
9579	90.2703	73.0852	12.2775	30.0760	21.5387
6789	90.2183	690.1254	114.6606	463.6435	88.8137
6686	90.1663	202.7423	35.4602	335.5334	59.0684
18943	90.1143	248.4443	46.8046	150.0480	42.4641
8110	89.9584	73.2159	13.8912	39.5861	15.8997
6974	89.8649	439.9621	60.1488	672.7254	169.4559
15173	89.8129	154.5984	25.7401	248.0312	62.7376

Timepoint(s)	AMPHOTERIC : 6 hrs	•	,	Atty. Ref. 44921-509	0-01-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
363			8.9412	44.7195	20.1520
13683	98.3971			196.8831	38.0878
21975	98.3454			180.4109	
17765	98.2937	2324.0066	177.5669	1391.8410	280.3635
6581	98.1386	52.0932	2.3469	87.0805	18.9598
15829	97.7766	364.9374	112.7083	49.3079	69.6881
17255	97.4147	112.8144	25.0925	50.9973	17.6989
17764	97.2596	3113.5854	275.4642	1942.2845	392.7246
2005	97.2596	101.5426	20.2833	40.1465	17.5466
25098	97.0010	59.0112	12.7713	15.8721	17.7194
21445	96.7942	83.5574	22.0419	10.5575	22.8185
1466	96.5357	801.7236	189.5122	447.2700	108.9977
16173	96.4840	71.5274	24.0334	13.4328	26.3857
24520	96.4840	146.3410	37.4706	51.0250	39.2486
20795	96.3289	240.0478	37.8245	112.2033	63.6121
4541	96.0703	256.8396	28.7640	444.4358	105.5209
1168	96.0186	24.4684	6.3814	6.1080	6.5377
1063	95.9152	61.3382	11.7391	22.6010	13.9335
15888	95.8118	545.6914	33.0164	791.2888	146.0130
16725	95.5016	26.3318	3.1236	14.6195	8.6242
1530	95.2947	134.4930	4.7830	193.4364	41.9915
1808	95.0879	260.5106	50.7959	95.4451	156.3507
23307	94.9845	105.8904	5.7454	68.7553	19.9460
18269	94.8811	186.7768	10.2046	265.5162	47.3855
15037	94.8811	88.3486	75.2186	250.9847	68.1165
18135	94.7260	205.3204	27.7518	138.8598	28.3593
12638	94.7260	52.7372	4.9146	31.4438	13.4629
14927	94.7260	86.6624	5.9265	58.9483	26.4175
4832	94.6743	622.8410	30.7624	878.0888	210.5414
18647	94.6225	299.1670	48.9037	173.8138	53.7113
12364	94.3123	88.0436	10.9307	150.4199	39.8522
20982	94.2606	128.8742	22.8767	221.8559	50.8029
6963	94.2089	284.6574	21.5556	177.3548	55.0450
14997	94.0538	532.5096	26.2041	745.6824	155.8938
17782	94.0021	212.7698	5.1155	262.7259	45.9986
4133	93.9504	69.4434	7.0420	103.9600	20.9691
18316	93.8469	1812.8340	67.9489	1337.5132	363.5887
21076	93.8469	126.1870	2.2627	122.7885	28.6879
4003	93.7435	156.9270	23.7070	105.5632	36.6164
10888	93.7435	72.2890	4.9749	52.5194	31.1627
16712	93.6401	270.7052	24.4385	378.4982	64.2954
11949	93.6401	47.0104	2.6055	32.8307	10.4141
20889	93.5884	446.4512	48.3340	289.2922	81.5171
25470	93.4850	145.7756	6.8738	113.0224	50.4424
11840	93.4333	99.4078	18.4037	67.5322	17.1482
18160	93.2782	1544.5864	208.8434	2365.1941	472.0023
18315	93.1748	1659.1842	92.4979	1137.8314	341.4328
23568	93.1231	56.3398	3.6719	39.6928	10.9466
8289	93.0714	54.4228	6.8826	100.8121	37.8497
9254	93.0714	192.8216	8.2676	252.4518	48.2105
22972	93.0196	73.0742	1.3045	61.4735	15.6494
16319	92.9679	51.1142	16.3777	22.3746	14.1136

Timepoint(s)	MPHOTERIC : 6 hrs	IN B		Atty. Ref. 44921-509	0-01-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23362	92.9679	426.0204	17.3942	343.4339	62.4496
12365	92.9162	290.6726	24.7316	415.2956	
24248	92.8645		2.5973	84.7763	
10660	92.8128			68.1244	
3474	92.8128	412.6048	20.7951	562.5296	
3879	92.7611	62.0656	33.4228	143.3410	
21683	92.7611	71.7498	9.5771	49.1710	
23310	92.7611	111.5548	6.3510	79.1597	28.4913
16942	92.7611	1147.5794	59.7372	1474.2555	240.6343
8661	92.7094	46.7326	22.0667	12.0085	69.6966
6782	92.7094	532.9708	37.1082	386.4038	89.6160
15438	92.7094	243.1736	4.7951	237.9922	63.3389
20888	92.6577	761.7078	90.3406	492.1469	133.0403
15887	92.3992	445.4306	32.0721	735.9139	265.1712
25997	92.3475	35.7280	2.7572	21.6537	9.8626
6892	92.2958	109.7348	24.9276	68.1920	36.0660
16524	92.1406	26.0014	0.6163	24.0262	6.6033
162	91.9338	72.0436	6.2772	42.2120	23.7190
14621	91.9338	133.9782	5.3673	169.1670	37.0095
3473	91.9338	110.2048	7.6062	151.5009	31.2498
21523	91.8821	84.9384	49.7825	190.7646	64.7551
11950	91.7270	76.9350	19.8714	36.5774	18.9318
4447	91.7270	41.4458	5.2281	22.4024	11.6597
17083	91.7270	64.1218	2.3053	68.1787	24.9963
22845	91.7270	656.6956	10.3788	665.3096	137.0397
1571	91.6753	220.1688	11.2160	172.4479	54.2278
24113	91.5719	31.8484	9.3282	10.0764	12.6795
1011	91.5719	24.4862	1.0211	20.7041	10.9071
13682	91.5202	151.1948	22.7722	289.9873	111.5601
23705	91.5202	195.9970	10.0343	265.2100	68.8168
167	91.4685	926.7020	100.1165	583.3957	174.4638
14981	91.4685	6611.0257	235.5070	6602.9446	2802.3734
20960	91.4168	695.7130	40.8447	521.5618	116.5608
239	91.4168	196.8380	5.6170	165.2513	98.8622
17257	91.3650	237.8380	26.6343	365.0675	115.5430
1638	91.3650	97.1086	11.0557	152.8822	49.9046
6980	91.3133	86.7840	16.2914	148.3850	43.1784
1097	91.3133	189.8588	26.8178	303.5643	100.0578
1311	91.3133	50.1778	2.7926	34.6061	14.6630
20484	91.2616	6292.0150	199.9022	6403.6069	2308.2101
25104	91.2099	346.4496	54.9456	173.4618	89.9549
21654	91.2099	244.6286	15.9412	204.8756	76.0734
25371	91.2099	100.7812	3.4622	93.1960	36.5943
22763	91.1582	65.3412	9.0858	40.9351	12.9578
18068	91.1582	104.6786	6.5163	83.3030	14.9982
13392	91:0548	152.4578	10.2255	201.4157	39.0008
9541	91.0548	488.1294	15.4711	403.9521	109.5222
18333	90.9514	173.1502	14.7010	228.8726	46.5199
4636	99.3795	467.8500	242.2832	131.1787	56.8828
22042	98.9659	339.3684	75.1597	100.0167	61.0272
21740	98.0352	456.0868	33.4311	276.7652	87.8126
4278	98.0352	88.0498	8.5371	42.2011	20.3576

Timepoint(s)	MPHOTERIC : 6 hrs	IN B		Atty. Ref. 44921-509	0-01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11702	97.8800			133.7083	46.9314
5615	97.8283		21.8574	38.5771	
24089	97.7249	637.6374	199.6779	214.0869	97.2781
2729	97.6215	217.5804	28.4467	480.5092	152.3810
18271	97.4664	1192.3508	147.8088	425.4314	237.7902
18272	97.3113	311.4518	36.7572	111.1531	64.3494
14117	97.3113	797.5784	46.3252	1161.1975	224.4091
2539	97.1562	117.4486	21.7002	20.8249	28.9708
24081	97.0527	-62.7924	31.5162	90.4001	56.9056
14380	96.9493	504.6868	7.6012	390.4853	119.3580
5030	96.8976	82.5804	8.5740	42.2192	16.3994
2795	96.6391	298.0746	45.1563	168.7500	44.6439
6640	96.4323	305.9566	6.6347	226.6775	61.7066
1802	96.3806	236.6206	22.6923	153.6587	39.9967
3003	96.2771	246.2542	50.4901	71.2325	64.2714
1332	96.1220	228.1560	31.2654	429.7260	110.6224
23005	96.0703	175.9890	33.8935	95.2413	68.9262
13080	95.7084	85.6216	26.0184	15.9478	28.1747
4027	95.7084	48.1146	7.9320	93.0816	38.4976
23390	95.6050	470.7924	49.6561	330.5827	66.6283
1998	95.6050	76.4118	10.4035	39.4215	33.8250
22487	95.5533	44.6356	7.2312	20.8012	10.6784
9976	95.4498	382.7352	36.1940	643.5721	171.4413
23409	95.2430	313.2406	29.4152	662.0116	240.1169
11563	95.0879	265.1508	85.7612	116.7885	54.9933
19545	95.0879	299.6418	25.9007	186.3541	56.9413
3445	95.0362	60.3296	5.0442	105.8003	33.8827
19136	94.9845	296.3566	7.5037	198.4383	69.3125
13633	94.9328	481.7274	37.8149	343.6374	114.7507
21713	94.8811	557.4628	59.8614	871.3903	177.2559
22239	94.7777	519.4526	7.8441	468.5614	146.5563
14031	94.7777	32.1638	4.9841	17.2851	14.4646
12187	94.7777	107.6768	8.7988	43.0391	42.0097
2662	94.7260	35.5306	2.4043	58.1739	31.4068
22651	94.6743	1021.8184	82.2183	718.8303	160.0003
4350	94.6743	189.4486	40.1721	454.7927	165.5004
2063	94.5708	259.2196	24.3214	180.7968	39.3014
22283	94.5708	232.8566	51.7414	116.3481	45.1469
23857	94.4157	85.9380	1.3338	86.3077	26.8114
22801	94.4157	412.0660	27.0817	581.3531	107.7824
12928	94.3640	639.0730	34.3105	870.5713	154.9074
16388	94.2606	78.9200	3.6489	54.1389	35.0319
8539	94.1572	33.9334	5.6627	71.6343	28.8032
18890	94.1055	511.3890	58.1729	834.1214	206.9359
5482	94.0538	152.1414	16.7076	261.6230	74.9412
18891	94.0538	190.5174	36.4661	330.1107	82.2822
12387	94.0021	137.1570	27.5767	72.2882	27.0901
168	94.0021	3581.2472	233.5294	2629.7285	522.3154
13029	93.8987	349.4770	49.3092	202.0514	85.9922
10658	93.8987	550.8180	120.3156	1363.6323	875.3128
18916	93.7435	450.5048	105.1152	245.5299	86.3405
18796	93.7435	32.7492	3.3795	9.1513	22.1154

TABLE 5E: AMPHOTERICIN B Timepoint(s): 6 hrs				Atty. Ref. 44921-509	0-01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21942	93.7435	2122.6678	364.4996	1379.6582	346.2585
18438	93.7435	706.7616	60.4604	471.0373	122.2648
22218	93.6401	59.8046	9.9566	114.3250	40.0403

4259   96.9430   1589.8659   190.8676   1025.3792   173.3154   16780   96.8912   132.2681   14.2080   70.4168   19.8154   20807   96.8912   2241.1979   298.0859   1305.3610   278.8448   20844   96.8912   2864.5389   435.1075   1576.0314   350.9617   4843   96.7876   291.0541   19.8623   433.1671   72.7306   23250   96.6839   183.6347   12.5762   249.1065   35.0313   17688   96.5285   104.5840   4.9652   153.8945   29.2558   25563   96.4767   290.8960   20.1097   451.4426   96.7035   22731   96.4249   346.8796   16.1784   509.2853   93.2138   25679   96.4249   2129.1789   260.7942   1410.0568   268.2938   17712   96.4249   1109.7723   136.2022   1728.1144   289.9941   18107   96.1658   702.3460   107.3752   412.5137   101.4433   7148   96.1658   200.7584   19.5780   307.2611   61.5694   9501   96.1140   184.4760   22.5023   118.2863   22.9688   18573   96.1140   240.8931   12.9388   340.8501   59.9261   17507   96.1140   231.2563   37.7161   440.2135   233.0538   1324   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   201.4274   20.5710   326.0595   67.8226   17729   95.9585   70.8847   27.2907   222.8664   74.5699   20745   95.8031   80.6951   103.7246   1254.5985   283.8660   11116   95.5959   183.2179   22.4486   36.4703   57.4160   15462   95.5440   334.4944   560.8371   2244.3433   39.91.160   16204   95.5959   1805.7873   167.8985   1271.9758   199.9240   26697   95.5440   33.49464   56.8371   2244.3433   33.931.101   16204   95.5959   1805.7873   167.8985   1271.9758   199.9240   26697   95.5440   33.9110   6.6465   75.7932   21.5556   18054   95.4922   65.8467   8.7215   126.5834   31.3531   14504   95.4922   281.8043   46.7470   529.6716   116.9672   20630   95.4922   726.8354   195.8009   344.2470   142.6618   19768   95.2332   216.0100   29.2689   375.5837   81.6117   20630   95.2332   216.0100   29.2689   375.5837   81.6117   20630   95.2332   216.0100   29.2689   375.5837   81.6117   20630   95.2332   216.0100   29.2689   375.5837   81.6117   20630   95.2332   216.0100   29.26	TABLE 5F:	,		Atty: R	ef. 44921-5090-0	1-WO/2105485
15269				ISD Tov		ICD No. 1
16427   98.9119   293.9709   76.0378   1283.4863   347.514     15570   98.6528   258.6041   46.1393   1039.6946   421.183.     18018   98.3938   570.0360   50.5394   915.5382   131.193.     4467   98.2383   316.5336   74.2216   868.8061   273.109.     17063   97.9793   190.2210   73.2469   62.1965   24.274.     15409   97.8756   1357.7633   248.1126   526.2359   158.937.     14989   97.8756   425.8114   34.0340   731.4218   156.3188     16420   97.8238   217.8023   16.7923   328.5433   49.307.     6451   97.8238   71.3897   11.3390   161.7444   46.7828     17064   97.7202   130.5931   54.8801   44.3384   18.6413     18244   97.3057   2814.2426   322.2026   1805.7654   295.1347     15408   97.2539   422.5439   222.9028   723.9240   187.2425     15408   97.2021   525.5060   96.4312   264.8164   76.4260     49.73057   2814.2426   322.2026   1805.7654   295.1347     15408   97.2021   525.5060   96.4312   264.8164   76.4260     4259   96.9430   1589.8659   190.8676   1025.3792   173.3154     16780   96.8912   132.2681   14.2080   70.4168   19.815     20807   96.8912   2241.1979   298.0859   1305.3610   278.8448     20844   96.8912   684.5389   435.1075   1576.0314   350.9617     4843   96.7676   291.0541   19.8623   433.1671   72.7306     22563   96.4767   290.8960   20.1097   451.4426   96.7035     22569   96.4249   1109.7723   136.2022   1728.1144   289.9941     17112   96.4249   1109.7723   136.2022   1728.1144   289.9941     1712   96.4249   1109.7723   136.2022   1728.1144   289.9941     1712   96.4249   1109.7723   136.2022   1728.1144   289.9941     1712   96.4249   1109.7723   136.2022   1728.1144   289.9941     1714   96.1658   200.7584   19.5780   307.2611   61.6564     95.9585   199.6343   22.8484   321.3071   222.1433     1562   95.9585   199.6343   22.8484   321.3071   222.1433     1562   95.9585   199.6343   22.8684   33.40.8501   59.9681     1570   96.1140   231.2563   37.7161   340.2135   330.9391     16624   95.9595   180.57873   16.6665   75.7932   22.8684     140.044   96.8912   26.8467   26.846					<u> </u>	4
15570   98.7047   177.3863   33.8858   624.5648   205.6031   15572   98.6528   258.6041   46.1393   1039.6946   421.183.   18018   98.3938   570.0360   50.5394   915.5382   131.1931   4467   98.2383   316.5336   74.2216   868.8061   273.1093   17063   97.9793   190.2210   73.2469   62.1965   24.274.   15409   97.8756   1357.7633   248.1126   526.2359   158.9371   14989   97.8756   1357.7633   248.1126   526.2359   158.9371   14989   97.8756   425.8114   34.0340   731.4218   156.3185   16420   97.8238   217.8023   16.7923   328.5433   49.907   14989   97.8756   425.8114   34.0340   731.4218   156.3185   16420   97.8238   71.3897   11.3390   161.7444   46.7824   17064   97.7202   130.5931   54.8801   44.3384   18.6413   11115   97.4093   72.2707   15.0501   0.3074   22.2563   19244   97.3057   2814.2426   322.2026   805.7654   295.1347   15884   97.2539   422.5439   22.9028   723.9240   187.2425   15884   97.2539   422.5439   22.9028   723.9240   187.2425   4259   96.9430   1589.8659   190.8676   1025.3792   173.316   16780   96.8912   232.1811   42.080   70.4168   19.8154   20807   96.8912   2361.1979   298.0859   1305.3610   278.8448   96.7876   291.0541   19.8623   433.1671   72.7306   23250   96.6839   183.6347   12.5762   249.1065   35.0313   17688   96.5285   104.5840   4.9652   153.8945   29.2358   255563   96.4767   290.8960   20.1097   451.4426   96.7035   22731   96.4249   346.8796   61.7784   509.2853   33.2138   25679   96.4249   2129.1789   260.7942   1410.0568   268.2938   177.72   96.4249   140.9763   177.8760   36.2022   1728.1144   289.9941   177.72   96.4249   140.9763   177.8760   36.2022   1728.1144   289.9941   1807   96.658   202.3660   20.1097   451.4426   96.7035   22731   96.4249   346.8796   61.7784   509.2853   33.2138   25679   96.4249   2129.1789   260.7942   1410.0568   268.2938   177.709   96.1140   240.8931   12.9388   340.85501   59.9261   177.999   59.8561   199.7633   242.8483   3321.3071   222.1433   7448   96.6528   201.4274   20.5710   326.0595   57.5932   21.5556   96.663					234.9980	
15572						
18018   98.3938   570.0360   50.5394   915.5382   131.1933     4467   98.2383   316.5336   74.2216   868.8061   273.109, 17063   97.9793   190.2210   73.2469   62.1965   24.274, 15409   97.8756   1357.7633   248.1126   526.2359   158.937, 14989   97.8756   425.8114   34.0340   731.4218   156.318, 16420   97.8238   271.8023   16.7923   328.5433   349.307, 16451   97.8238   271.8023   16.7923   328.5433   349.307, 17064   97.7202   130.5931   54.8801   44.3384   18.6412, 17064   97.7202   130.5931   54.8801   44.3384   18.6413, 11115   97.4093   72.2707   15.0501   0.3074   22.2583, 159.444   97.3057   2814.2426   322.2026   1805.7654   295.1347   15884   97.2539   422.5439   22.9208   723.9240   187.2425   15408   97.2021   525.5060   96.4312   264.8164   76.4266   4259   96.9430   1589.8659   190.8676   1025.3792   173.3154   16780   96.8912   2241.1979   298.0859   305.3610   278.8454   20807   96.8912   2241.1979   298.0859   305.3610   278.8454   22556   96.6839   483.6347   12.5762   249.1065   35.0313   17688   96.5285   104.5840   4.9652   153.8945   29.2358   22569   96.64249   346.8796   16.1784   509.2865   39.2358   22573   96.4249   346.8796   16.1784   509.2865   39.2358   22573   96.4249   346.8796   16.1784   509.2865   39.2358   22573   96.4249   1109.7723   136.0202   1728.1144   288.9941   18107   96.1658   200.7584   19.5780   307.2611   61.5694   95.9585   197.6343   22.26864   34.3050   59.9261   17712   96.4249   1109.7723   136.0202   1728.1144   288.9941   17712   96.4249   1109.7723   136.0202   1728.1144   288.9941   17712   96.4249   1409.7583   137.7161   440.2135   233.0538   132.496   60.622   201.4274   20.5710   326.05595   67.8226   177.995   39.8381   23.05886   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386   30.2386						
4467   98.2383   316.5336   74.2216   868.8061   273.1092   17063   97.9793   190.2210   73.2469   62.1965   24.2741   154049   97.8756   1357.7633   248.1126   526.2359   158.9371   14989   97.8756   425.8114   34.0340   731.4218   156.3181   16420   97.8238   217.8023   16.7923   328.5433   49.3076   45451   97.8238   71.3897   11.3390   161.7444   46.7622   46.7024   47.3057   21.30.5931   54.8801   44.3384   18.6413   11115   97.4093   72.2707   15.0501   0.3074   22.2563   19244   97.3057   2814.2426   322.2026   1805.7654   295.1341   15884   97.2539   422.5439   22.9208   723.9240   187.2425   15408   97.2021   525.5060   96.4312   264.8164   76.4260   4259   96.9430   1589.8659   190.8676   1025.3792   173.3154   20807   96.8912   132.2681   14.2080   70.4168   19.8154   20804   96.8912   2241.1979   298.0869   1305.3610   278.8448   96.8912   2244.1979   298.0869   1305.3610   278.8448   96.8912   2266.5389   435.1075   1576.0314   350.9617   4843   96.7876   291.0541   19.8623   433.1671   72.7306   23250   96.6839   183.6347   12.5762   249.1065   35.0313   17688   96.5265   104.5840   4.9652   153.8945   29.2338   25563   96.4767   290.8960   20.1097   451.4426   96.7035   22731   96.4249   1109.7723   136.2022   1728.1144   289.9941   18107   96.4249   1109.7723   136.2022   1728.1144   289.9941   18107   96.1668   702.3460   107.3752   412.5137   101.4433   17712   96.4249   1109.7723   136.2022   1728.1144   289.9941   18107   96.1668   702.3460   107.3752   412.5137   101.4433   132.496.0622   330.9949   70.2060   605.9855   161.6673   20.3460   107.3752   412.5137   101.4433   132.496.0622   330.9949   70.2060   605.9855   161.6673   20.3460   107.3752   412.5137   101.4433   132.496.0622   330.9949   70.2060   605.9855   161.6673   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3460   20.3						
17063   97.9793   190.2210   73.2469   62.1965   24.2742     15409   97.8756   1357.7633   248.1126   526.2359   158.9371     14989   97.8756   425.8114   34.0340   731.4218   156.3188     16420   97.8238   217.8023   16.7923   328.5433   49.3070     6451   97.8238   71.3897   11.3390   161.7444   46.7822     17064   97.7202   130.5931   54.8801   44.3384   18.6413     171054   97.4093   72.2707   15.0501   0.3074   22.2563     19244   97.3057   2814.2426   322.2026   1805.7654   295.1347     15884   97.2539   422.5439   22.9208   723.9240   187.2425     15408   97.2021   525.5060   96.4312   264.8164   76.4260     4259   96.9430   1589.8659   190.8676   1025.3792   173.3154     16780   96.8912   2241.1979   298.0859   1305.3610   278.8488     20807   96.8912   2241.1979   298.0859   1305.3610   278.8488     20804   96.8912   2241.1979   298.0859   1305.3610   278.8488     20844   96.8912   2964.5389   435.1075   1576.0314   350.9617     4443   96.7876   291.0541   19.8623   433.1671   72.7306     23250   96.6839   183.6347   12.5762   249.1065   35.0313     17688   96.5285   104.5840   4.9652   153.8945   29.2368     25563   96.4767   290.8960   20.1097   451.4426   96.7035     22731   96.4249   1409.7723   136.2022   1728.1144   289.9941     18107   96.1658   702.3460   107.3752   412.5137   101.4433     7148   96.1658   200.7584   19.5780   307.2611   61.5694     9501   96.1140   240.8931   12.9388   340.8501   59.9261     17707   96.1429   109.7723   136.2022   1728.1144   289.9941     18107   96.1658   702.3460   107.3752   412.5137   101.4433     7148   96.1658   200.7584   19.5780   307.2611   61.5694     18573   96.1140   240.8931   12.9388   340.8501   59.9261     17719   96.4249   1109.7723   136.2022   1728.1144   289.9941     18107   96.1658   702.3460   107.3752   412.5137   101.4433     7148   96.1658   200.7584   19.5780   307.2611   61.5694     19504   95.9595   1805.7873   167.8985   1271.9758   199.9240     20745   95.8031   238.6544   25.7200   358.9398   58.0826     20745   95.8031   238.6						
15409   97.8756   1357.7633   248.1126   526.2359   158.9371   14989   97.8756   425.8114   34.0340   731.4218   156.3188   16420   97.8238   217.8023   16.7923   328.5433   49.3070   6451   97.8238   71.3897   11.3390   161.7444   46.7828   17064   97.7202   130.5931   54.8801   44.3384   18.6413   1115   97.4093   72.2707   15.0501   0.3074   22.2563   19244   97.3057   2814.2426   322.2026   1805.7654   295.1347   15884   97.2539   422.5439   22.9028   723.9240   187.2425   15884   97.2539   422.5439   22.9028   723.9240   187.2425   15884   97.2539   422.5439   22.9028   723.9240   187.2425   16780   96.9430   1589.8659   190.8676   1025.3792   173.3154   16780   96.8912   132.2681   14.2080   70.4168   19.8154   20807   96.8912   2241.1979   298.0859   1305.3610   278.8448   96.8912   2241.1979   298.0859   1305.3610   278.8448   96.8912   2241.1979   298.0859   1305.3610   278.8448   96.8912   2364.5389   435.1075   1576.0314   350.9617   4843   96.7876   291.0541   19.8623   433.1671   72.7306   23250   96.6339   183.6347   12.5762   249.1065   35.0313   17688   96.5285   104.5840   4.9652   153.8945   29.2358   25563   96.4767   290.8960   20.1097   451.4426   96.7035   22731   96.4249   348.8796   16.1784   509.2853   93.2138   255679   96.4249   2129.1789   260.7942   1410.0568   268.2938   171712   96.1658   702.3460   107.3752   412.5137   101.4333   118.07   96.1658   702.3460   107.3752   412.5137   101.4333   1324   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   330.9949   70.2060   605.9855   116.1673   4236   96.0622   330.9949   70.2060   605.9855   116.1673   4236   96.0622   330.9949   70.2060   605.9855   116.1673   4236   96.0622   201.4274   20.5710   326.0595   67.8226   60.0062   201.4274   20.5710   326.0595   67.8226   60.00						
14989						
16420		97.0756				
6451         97.8238         71.3897         11.3390         161.7444         46.7826           17064         97.7202         130.5931         54.8801         44.3384         18.6411           11115         97.4093         72.2707         15.0501         0.3074         22.2563           19244         97.3057         2814.2426         322.2026         1805.7654         295.1347           15884         97.2539         422.5439         22.9208         723.9240         187.2425           15408         97.2021         525.5060         96.4312         264.8164         76.4266           4259         96.9430         1589.8659         190.8676         1025.3792         173.3154           20807         96.8912         132.2681         14.2080         70.4168         19.8154           20807         96.8912         2841.1979         298.0859         1305.3610         278.8448           20844         96.8912         2864.5389         435.1075         1576.0314         350.9617           4843         96.7876         291.0541         19.8623         433.1671         72.7306           23250         96.6839         183.6347         12.5762         249.1065         35.031						
17064   97.7202   130.5931   54.8801   44.3384   18.6413     11115   97.4093   72.2707   15.0501   0.3074   22.2583     19244   97.3057   2814.2426   322.2026   1805.7654   295.1347     15884   97.2539   422.5439   22.9208   723.9240   187.2425     15408   97.2021   525.5060   96.4312   264.8164   76.4260     4259   96.9430   1589.8659   190.8676   1025.3792   173.3154     16780   96.8912   132.2681   14.2080   70.4168   19.8154     20807   96.8912   2241.1979   298.0859   1305.3610   278.8448     20844   96.8912   2241.1979   298.0859   1305.3610   278.8448     20844   96.8912   2241.9641   19.8623   433.1671   72.7306     4843   96.7876   291.0541   19.8623   433.1671   72.7306     23250   96.6839   183.6347   12.5762   249.1065   35.0313     17688   96.5285   104.5840   4.9652   153.8945   29.2358     25563   96.4767   290.8960   20.1097   451.4426   96.7035     22731   96.4249   346.8796   16.1784   509.2853   93.2138     25679   96.4249   2129.1789   260.7942   1410.0568   268.2938     17712   96.4249   1109.7723   136.2022   1728.1144   289.9941     18107   96.1658   702.3460   107.3752   412.5137   101.4433     17507   96.1140   184.4760   22.5023   118.2863   22.9688     18573   96.1140   240.8931   12.9388   340.8501   59.9261     17507   96.1140   231.2563   37.7161   440.2135   233.0536     1324   96.0622   230.9949   70.2060   606.9855   116.1673     4235   96.0622   201.4274   20.5710   326.0595   67.826     17729   95.9585   1997.6343   242.8843   1321.3071   222.1143     15622   95.9855   190.76343   242.8843   1321.3071   222.1143     15623   95.9585   193.6544   25.7200   358.9398   58.0826     23709   95.8031   806.6951   103.7246   1254.5985   283.8660     1116   95.5959   180.57873   167.8985   1271.9758   199.240     2697   95.5440   343.4944   560.8371   2244.3433   399.1160     15462   95.9865   70.8847   27.2907   222.8664   74.5699     20745   95.8031   238.6544   25.7200   358.9398   58.0826     23709   95.8031   80.6961   103.7246   1254.5985   283.8660     1116   95.5959   180.5787						
11115						
19244   97.3057   2814.2426   322.2026   1805.7654   295.1347   15884   97.2539   422.5439   22.9208   723.9240   187.2425   15408   97.2021   525.5060   96.4312   264.8164   76.4260   4259   96.9430   1589.8659   190.8676   1025.3792   173.3154   16780   96.8912   132.2681   14.2080   70.4168   19.8154   20807   96.8912   2241.1979   298.0859   1305.3610   278.8448   20844   96.8912   2241.1979   298.0859   1305.3610   278.8448   20844   96.8912   2864.5389   435.1075   1576.0314   350.9617   4843   96.7876   291.0541   19.8623   433.1671   27.3306   23250   96.6839   183.6347   12.5762   249.1065   35.0313   17688   96.5265   104.5840   4.9652   153.8945   29.2358   25563   96.4767   290.8960   20.1097   451.4426   96.7035   22731   96.4249   346.8796   16.1784   509.2853   93.2138   25679   96.4249   2129.1789   260.7942   1410.0568   268.2938   17712   96.4249   1109.7723   136.2022   1728.1144   289.9941   18107   96.1658   702.3460   107.3752   412.5137   101.4433   7148   96.1658   200.7584   19.5780   307.2611   61.5694   9501   96.1140   184.4760   22.5023   118.2863   22.9688   18573   96.1140   231.2563   37.7161   440.2135   233.0538   1324   96.0622   330.9949   70.2060   605.9855   116.1673   4235   96.0622   201.4274   20.5710   326.0595   67.8266   23709   95.8031   238.6544   25.7200   358.9398   58.0826   23709   95.8031   238.6544   25.7200   358.9398   58.0826   23709   95.8031   238.6544   25.7200   358.9398   58.0826   23709   95.8031   238.6544   25.7200   358.9398   58.0826   23709   95.5440   35.9110   6.6465   75.7932   21.5556   197.5440   35.9110   6.6465   75.7932   21.5556   10.6673   45.640   95.4922   261.8043   46.7470   529.6716   116.9672   20.500   95.2332   216.0100   29.2689   375.5837   81.6117   20.2600   95.2332   216.0100   29.2689   375.5837   81.6117   20.500   95.2332   216.0100   29.2689   375.5837   81.6117   20.500   95.2332   216.0100   29.2689   375.5837   81.6117   20.500   95.2332   216.0100   29.2689   375.5837   81.6117   20.500   95.2332   216.0100   29.2						
15884   97.2539   422.5439   22.9208   723.9240   187.2425     15408   97.2021   525.5060   96.4312   264.8164   76.4260     4259   96.9430   1589.8659   190.8676   1025.3792   173.3154     16780   96.8912   132.2681   14.2080   70.4168   19.8154     20807   96.8912   2241.1979   298.0859   1305.3610   278.8448     20844   96.8912   2264.5389   435.1075   1576.0314   350.9617     4843   96.7876   291.0541   19.8623   433.1671   72.7306     23250   96.6839   183.6347   12.5762   249.1065   35.0313     17688   96.5285   104.5840   4.9652   153.8945   29.2358     25563   96.4767   290.8960   20.1097   451.4426   96.7035     22731   96.4249   346.8796   16.1784   509.2853   93.2138     25679   96.4249   2129.1789   260.7942   1410.0568   268.2938     17712   96.4249   1109.7723   136.2022   1728.1144   289.9941     18107   96.1658   702.3460   107.3752   412.5137   101.4433     7148   96.1658   200.7584   19.5780   307.2611   61.5694     9501   96.1140   184.4760   22.5023   118.2863   22.9688     18573   96.1140   240.8931   12.9388   340.8501   59.9261     17507   96.140   231.2563   37.7161   440.2135   233.0538     1324   96.0622   330.9949   70.2060   605.9855   116.1673     4235   96.0622   201.4274   20.5710   326.0595   67.8226     17729   95.9585   1997.6343   242.8843   1321.3071   222.1143     15622   95.9885   70.8847   27.2007   222.8664   74.5699     20745   95.8031   238.6544   25.7200   358.9398   58.0826     23709   95.8031   80.6951   103.7246   1254.5985   283.8660     11116   95.5959   1805.7873   167.8985   1271.9758   199.9240     2697   95.5440   34.9464   560.8371   224.43433   399.1160     16204   95.5959   1805.7873   167.8985   1271.9758   199.9240     2698   95.5440   35.9110   6.6465   75.7932   21.5556     18054   95.4922   265.8467   8.7215   126.5834   31.3531     14504   95.4922   228.8043   46.7470   529.6716   116.9672     26030   95.4922   228.8043   46.7470   529.6716   116.9672     26030   95.4922   228.8043   46.7470   529.6716   116.9672     26030   95.4922   228.8043   46.						
15408 97.2021 525.5060 96.4312 264.8164 76.4260 4259 96.9430 1589.8659 190.8676 1025.3792 173.3154 16780 96.8912 132.2681 14.2080 70.4168 19.8154 20807 96.8912 2241.1979 298.0859 1305.3610 278.8448 20844 96.8912 2864.5389 435.1075 1576.0314 350.9617 4843 96.7876 291.0541 19.8623 433.1671 72.7306 23250 96.6839 183.6347 12.5762 249.1065 35.0313 17688 96.5285 104.5840 4.9652 153.8945 29.2358 25563 96.4767 290.8960 20.1097 451.4426 96.7035 22731 96.4249 346.8796 16.1784 509.2853 93.2138 25679 96.4249 2129.1789 260.7942 1410.0568 268.2938 17712 96.4249 1109.7723 136.2022 1728.1144 289.9941 18107 96.1658 702.3460 107.3752 412.5137 101.4433 7148 99.1658 200.7584 19.5780 307.2611 61.5694 9501 96.1140 184.4760 22.5023 118.2863 22.9688 18573 96.1140 240.8931 12.9388 340.8501 59.9261 17507 96.1140 231.2563 37.7161 440.2135 233.0538 1324 96.0622 330.9949 70.2060 605.9855 116.1673 4235 96.0622 301.9949 70.2060 605.9855 116.1673 4235 96.0622 301.9949 70.2060 605.9855 116.1673 4235 96.0622 201.4274 20.5710 326.0595 67.8226 17729 95.9585 1997.6343 242.8843 1321.3071 222.1143 15622 95.9585 70.8847 27.2907 222.8664 74.5699 20745 95.8031 238.6544 25.7200 358.9398 58.0826 23709 95.8031 800.6951 103.7246 1254.5985 293.8660 21116 95.5959 1805.7873 167.8985 1271.9758 199.9240 2697 95.5440 343.9464 660.8371 224.43433 399.1160 15462 95.5940 3434.9464 660.8371 224.43433 399.1160 15462 95.5940 343.9464 660.8371 224.43433 399.1160 15462 95.5940 343.9464 660.8371 224.43433 399.1160 15462 95.5440 35.9100 66.465 75.7932 21.5556 18054 95.4922 66.8467 8.7215 126.5834 31.3531 14504 95.4922 281.8043 46.7470 529.6716 116.9672 20630 95.4922 726.8354 195.8009 344.2470 142.6618 19768 95.2332 261.0102 94.2492 503.6307 155.1346 19768 95.2332 272.5644 48.9227 577.6082 121.6587 20810 95.2332 272.5644 48.9227 577.4997 119.5573						
4259 96.9430 1589.8659 190.8676 1025.3792 173.3154 16780 96.8912 132.2681 14.2080 70.4168 19.8154 20807 96.8912 2241.1979 298.0859 1305.3610 278.8448 20844 96.8912 2864.5389 435.1075 1576.0314 350.9617 4843 96.7876 291.0541 19.8623 433.1671 72.7306 23250 96.6839 183.6347 12.5762 249.1065 35.0313 17688 96.5285 104.5840 4.9652 153.8945 29.2358 25563 96.4767 290.8960 20.1097 451.4426 96.7035 22731 96.4249 346.8796 16.1784 509.2853 93.2138 25679 96.4249 2129.1789 260.7942 1410.0568 268.2938 17712 96.4249 1109.7723 136.2022 1728.1144 289.9941 18107 96.1658 702.3460 107.3752 412.5137 101.4433 7148 96.1658 200.7584 19.5780 307.2611 61.5694 9501 96.1140 184.4760 22.5023 118.2863 22.9688 18573 96.1140 240.8931 12.9388 340.8501 59.9261 17507 96.1140 231.2563 37.7161 440.2135 233.0538 1324 96.0622 330.9949 70.2060 605.9855 116.1673 4235 96.0622 201.4274 20.5710 326.0595 67.8226 17729 95.9585 70.8847 27.2907 222.8664 74.5699 207.45 95.8031 238.6544 25.7200 358.9398 50.826 23709 95.8031 800.6951 103.7246 1254.5985 283.8660 11116 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 1805.7873 167.8985 1271.9758 199.9240 20745 95.8031 238.6544 25.7200 358.9398 50.8026 23709 95.8031 800.6951 103.7246 1254.5985 283.8660 11116 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 1805.7873 167.8985 1271.9758 199.9240 2697 95.5440 334.9464 560.8371 224.43433 399.1160 16404 95.4922 281.8043 46.7470 529.6716 116.9672 295.3866 743.1596 63.3540 1111.40604 186.0991 17301 95.2850 260.6029 27.68354 195.8009 344.2470 142.6618 19768 95.2332 261.0100 29.2689 375.5837 81.61177 20630 95.2332 275.6844 48.9227 577.997 119.5573 206.000 95.2332 272.5644 48.9227 577.997 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.5573 277.577 119.55						·
16780         96.8912         132.2681         14.2080         70.4168         19.8154           20807         96.8912         2241.1979         298.0859         1305.3610         278.8448           20844         96.8912         2264.5389         435.1075         1576.0314         350.9617           4843         96.7876         291.0541         19.8623         433.1671         72.7306           23250         96.6839         183.6347         12.5762         249.1065         35.0313           17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         39.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         702.7584         19.5780         307.2611         61.5694						76.4260
20807         96.8912         2241.1979         298.0859         1305.3610         278.8448           20844         96.8912         2864.5389         435.1075         1576.0314         350.9617           4843         96.7876         291.0541         19.8623         433.1671         72.7306           23250         96.6839         183.6347         12.5762         249.1065         35.0313           17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         240.8931         12.9388         340.8501         59.9261						
20844         96.8912         2864.5389         435.1075         1576.0314         350.9617           4843         96.7876         291.0541         19.8623         433.1671         72.7306           23250         96.6839         183.6347         12.5762         249.1065         35.0313           17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         702.3460         12.9388         340.8501         59.9261           17507         96.1140         184.4760         22.5023         118.2863         22.9688						
4843         96.7876         291.0541         19.8623         433.1671         72.7306           23250         96.6839         183.6347         12.5762         249.1065         35.0313           17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538						278.8448
23250         96.6839         183.6347         12.5762         249.1065         35.0313           17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4333           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673						350.9617
17688         96.5285         104.5840         4.9652         153.8945         29.2358           25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143      <						72.7306
25563         96.4767         290.8960         20.1097         451.4426         96.7035           22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143						35.0313
22731         96.4249         346.8796         16.1784         509.2853         93.2138           25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1440         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.847         27.2907         222.8664         74.5699 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>29.2358</td></t<>						29.2358
25679         96.4249         2129.1789         260.7942         1410.0568         268.2938           17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         836.6544         25.7200         358.9398         58.0826      <						96.7035
17712         96.4249         1109.7723         136.2022         1728.1144         289.9941           18107         96.1658         702.3460         107.3752         412.5137         101.433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         806.6951         103.7246         1254.5985         283.8660						93.2138
18107         96.1658         702.3460         107.3752         412.5137         101.4433           7148         96.1658         200.7584         19.5780         307.2611         61.5694           9501         96.1140         184.4760         22.5023         118.2863         22.9688           18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         1805.7873         167.8985         1271.9758         199.9240 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>268.2938</td></t<>						268.2938
7148 96.1658 200.7584 19.5780 307.2611 61.5694 9501 96.1140 184.4760 22.5023 118.2863 22.9688 18573 96.1140 240.8931 12.9388 340.8501 59.9261 17507 96.1140 231.2563 37.7161 440.2135 233.0538 1324 96.0622 330.9949 70.2060 605.9855 116.1673 4235 96.0622 201.4274 20.5710 326.0595 67.8226 17729 95.9585 1997.6343 242.8843 1321.3071 222.1143 15622 95.9585 70.8847 27.2907 222.8664 74.5699 20745 95.8031 238.6544 25.7200 358.9398 58.0826 23709 95.8031 800.6951 103.7246 1254.5985 283.8660 11116 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 1805.7873 167.8985 1271.9758 199.9240 2697 95.5440 3434.9464 560.8371 2244.3433 399.1160 15462 95.5440 35.9110 6.6465 75.7932 21.55566 18054 95.4922 65.8467 8.7215 126.5834 31.3531 14504 95.4922 65.8467 8.7215 126.5834 31.3531 14504 95.4922 726.8354 195.8009 344.2470 142.6618 19222 95.3886 743.1596 63.3540 1114.0604 186.0991 17301 95.2850 210.4029 40.2492 503.6307 155.1346 19768 95.2332 216.0100 29.2689 375.5837 81.6117 20810 95.2332 3040.8551 331.0841 2016.2404 403.9704 5050 95.2332 272.5644 48.9227 517.4997 119.5573						289.9941
9501 96.1140 184.4760 22.5023 118.2863 22.9688 18573 96.1140 240.8931 12.9388 340.8501 59.9261 17507 96.1140 231.2563 37.7161 440.2135 233.0538 1324 96.0622 330.9949 70.2060 605.9855 116.1673 4235 96.0622 201.4274 20.5710 326.0595 67.8226 17729 95.9585 1997.6343 242.8843 1321.3071 222.1143 15622 95.9585 70.8847 27.2907 222.8664 74.5699 20745 95.8031 238.6544 25.7200 358.9398 58.0826 23709 95.8031 800.6951 103.7246 1254.5985 283.8660 11116 95.5959 183.2179 22.4486 36.4703 57.4160 16204 95.5959 1805.7873 167.8985 1271.9758 199.9240 2697 95.5440 3434.9464 560.8371 2244.3433 399.1160 15462 95.5440 35.9110 6.6465 75.7932 21.5556 18054 95.4922 65.8467 8.7215 126.5834 31.3531 14504 95.4922 65.8467 8.7215 126.5834 31.3531 14504 95.4922 726.8354 195.8009 344.2470 142.6618 19222 95.3886 743.1596 63.3540 1114.0604 186.0991 17301 95.2850 210.4029 40.2492 503.6307 155.1346 19768 95.2332 216.0100 29.2689 375.5837 81.6117 20810 95.2332 3040.8551 331.0841 2016.2404 403.9704 5050 95.2332 272.5644 48.9227 517.4997 119.5573						101.4433
18573         96.1140         240.8931         12.9388         340.8501         59.9261           17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531						61.5694
17507         96.1140         231.2563         37.7161         440.2135         233.0538           1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531						22.9688
1324         96.0622         330.9949         70.2060         605.9855         116.1673           4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         806.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         726.8354         195.8009         344.2470         142.6618					340.8501	59.9261
4235         96.0622         201.4274         20.5710         326.0595         67.8226           17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618 <tr< td=""><td></td><td></td><td></td><td></td><td>440.2135</td><td>233.0538</td></tr<>					440.2135	233.0538
17729         95.9585         1997.6343         242.8843         1321.3071         222.1143           15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991					605.9855	116.1673
15622         95.9585         70.8847         27.2907         222.8664         74.5699           20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346 <tr< td=""><td></td><td></td><td></td><td></td><td>326.0595</td><td>67.8226</td></tr<>					326.0595	67.8226
20745         95.8031         238.6544         25.7200         358.9398         58.0826           23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2332         216.0100         29.2689         375.5837         81.6117 <t< td=""><td></td><td></td><td></td><td></td><td>1321.3071</td><td>222.1143</td></t<>					1321.3071	222.1143
23709         95.8031         800.6951         103.7246         1254.5985         283.8660           11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117      <			70.8847	27.2907	222.8664	74.5699
11116         95.5959         183.2179         22.4486         36.4703         57.4160           16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         272.5644         48.9227         517.4997         119.5573 <td></td> <td></td> <td></td> <td>25.7200</td> <td>358.9398</td> <td>58.0826</td>				25.7200	358.9398	58.0826
16204         95.5959         1805.7873         167.8985         1271.9758         199.9240           2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573 <td></td> <td></td> <td>800.6951</td> <td>103.7246</td> <td>1254.5985</td> <td>283.8660</td>			800.6951	103.7246	1254.5985	283.8660
2697         95.5440         3434.9464         560.8371         2244.3433         399.1160           15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573				22.4486	36.4703	57.4160
15462         95.5440         35.9110         6.6465         75.7932         21.5556           18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573				167.8985	1271.9758	199.9240
18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573				560.8371	2244.3433	399.1160
18054         95.4922         65.8467         8.7215         126.5834         31.3531           14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573			35.9110	6.6465	75.7932	21.5556
14504         95.4922         281.8043         46.7470         529.6716         116.9672           20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573			65.8467	8.7215	126.5834	
20630         95.4922         726.8354         195.8009         344.2470         142.6618           19222         95.3886         743.1596         63.3540         1114.0604         186.0991           17301         95.2850         210.4029         40.2492         503.6307         155.1346           19768         95.2850         565.7791         47.6790         797.6082         121.6587           21672         95.2332         216.0100         29.2689         375.5837         81.6117           20810         95.2332         3040.8551         331.0841         2016.2404         403.9704           5050         95.2332         272.5644         48.9227         517.4997         119.5573			281.8043			
19222     95.3886     743.1596     63.3540     1114.0604     186.0991       17301     95.2850     210.4029     40.2492     503.6307     155.1346       19768     95.2850     565.7791     47.6790     797.6082     121.6587       21672     95.2332     216.0100     29.2689     375.5837     81.6117       20810     95.2332     3040.8551     331.0841     2016.2404     403.9704       5050     95.2332     272.5644     48.9227     517.4997     119.5573		95.4922	726.8354			
17301     95.2850     210.4029     40.2492     503.6307     155.1346       19768     95.2850     565.7791     47.6790     797.6082     121.6587       21672     95.2332     216.0100     29.2689     375.5837     81.6117       20810     95.2332     3040.8551     331.0841     2016.2404     403.9704       5050     95.2332     272.5644     48.9227     517.4997     119.5573	19222	95.3886	743.1596			
19768     95.2850     565.7791     47.6790     797.6082     121.6587       21672     95.2332     216.0100     29.2689     375.5837     81.6117       20810     95.2332     3040.8551     331.0841     2016.2404     403.9704       5050     95.2332     272.5644     48.9227     517.4997     119.5573		95.2850				
21672     95.2332     216.0100     29.2689     375.5837     81.6117       20810     95.2332     3040.8551     331.0841     2016.2404     403.9704       5050     95.2332     272.5644     48.9227     517.4997     119.5573	19768					
20810 95.2332 3040.8551 331.0841 2016.2404 403.9704 5050 95.2332 272.5644 48.9227 517.4997 119.5573						
5050 95.2332 272.5644 48.9227 517.4997 119.5573	20810					
	5050					
18539 95.2332 282.9924 41.5679 560.5237 195.9350	18539					

TABLE 5F: Timepoint(s	BI s): 168, 336 h	rs	Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15492	95.0777	198.7870			
24564	95.0777	128.0414	14.8501	83.3015	
23142	94.9741		15.7196	17.5146	
18305	94.9223			2110.6323	
10744	94.8187		11.9271	179.7331	57.0739
4243	94.8187	51.3371	7.6677	93.8936	27.3483
20421	94.7668		5.1641	86.7888	18.2928
17306	94.7150	7304.2837	1238.4613	4648.0647	1089.5899
25399	94.7150	506.0113	135.7842	216.0530	114.9393
16610	94.7150	427.9930	57.2292	756.9338	181.2608
450	94.6114	5628.8407	997.6780	3736.9132	767.6875
17731	94.5596	167.9773	24.2283	86.0909	43.6820
4517	94.5078	33.0951	3.7148	65.2515	21.2361
21957	94.4560	172.8843	14.1950	243.8138	43.1393
20917	94.4041	69.7076	13.0813	127.3824	31.0256
15116	94.3523	50.5716	5.5540	82.9210	19.4452
6425	94.3005	102.3871	19.7933	171.8848	36.8257
11997	94.0415	414.8107	87.2466	678.7777	122.3944
19319	94.0415	65.5060	4.3582	93.1397	20.9083
17136	93.9896	98.7824	42.6359	523.0232	369.9840
11992	93.8860	141.6666	19.0249	254.9445	70.6907
11405	93.8860	28.9459	2.4888	44.7777	10.6440
7602	93.7306	367.7629	42.0093	527.9297	87.0690
24263	93.6269	0.6497	12.9179	46.8636	23.7843
11352	93.5233	195.3599	21.5531	302.1285	63.2262
16178	93.4715	208.3697	21.0391	295.5385	48.8193
15202	93.4197	1737.1439	249.5668	1014.0869	354.9850
14957	93.4197	61.9469	12.0382	110.9589	25.2231
17517	93.3679	177.5686	26.8054	285.1725	56.4452
8899	93.3161	607.7543	71.7051	890.1090	150.3611
18569	93.3161	639.0183	226.0855	1610.4958	609.7234
21063	93.2642	80.9499	13.0064	139.6931	42.6657
18031	93.1606	211.9716	31.3364	388.4117	96.7759
25120	93.1088	39.7119	10.6457	78.4173	20.9471
1314	93.1088	444.5903	54.8862	660.5187	118.3773
21940	93.0570	63.2817	8.9608	115.0101	32.7113
23854	93.0052	1073.0710	186.4309	708.7255	172.2717
17158	93.0052	434.7516	56.7880	746.7869	209.7555
22891	92.9534	93.1706	5.2413	112.8740	28.6200
21108	92.9534	4.3739	4.9960	26.9621	13.4671
11296	92.9016	22.9944	8.0878	47.6528	13.3005
16099	92.9016	324.4046	32.7306	430.8522	62.0822
3910	92.9016	94.1221	12.6656	145.7204	35.2619
25184	92.8497	6.6997	8.9605	37.3945	16.6925
1762	92.8497	48.8919	10.4947	61.6225	74.3424
17176	92.7979	4333.4994	629.4033	2685.8048	801.1528
1942	92.7979	4.4739	4.1363	45.8718	33.3684
25041	92.7461	79.9310	17.4453	154.7853	45.1670
6158	99.0155	148.6926	39.9027	709.5511	245.4852
22716	98.9119	36.5181	8.5602	173.9637	67.4242
2046	97.9275	47.7550	10.7271		
4585	97.8238	2159.8191	200.3457	138.1307 1318.4097	44.9137 247.8512

TABLE 5F:	TABLE 5F: BI Atty. Ref. 44921-5090-01-WO/2105485							
Timepoint(s): 168, 336 hrs								
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox			
15260	97.8238	656.9087	60.8892	376.9953	93.6401			
18915	97.8238	398.7401	70.5634	954.6520	267.1831			
6984	97.7202	500.2131	65.2292	216.7627				
9412		169.6379	42.7022	46.2183	51.4983			
18151		559.5641	76.8065	329.0736	68.4657			
26213	96.9948	1580.0974	522.2003	577.7325	256.1040			
6154	96.9948	319.6549	207.7988	1576.8974	653.0310			
5111	96.9948	136.3579	16.9041	365.5307	127.5558			
18125		189.1237	21.4034	301.4020	62.3747			
19783	96.8912	989.0276	159.3433	599.8644	106.5752			
6157	96.8912	842.2940	210.1032	2306.7073	831.1001			
22387	96.7358	1315.2459	88.4913	912.7375	160.7472			
18854	96.5803	71.1124	18.6730	192.2503	50.5585			

	BlCore To:		Atty. R	ef, 44921-5090-0	)1-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25632	99.3264	332.5001	83.9413	1452.4351	453.8814
15571	99.3264	344.0104		1439.4661	471.6357
22385	99.2746	26.5514	7.3273	150.1247	70.4763
15269	99.1192	143.8120		234.9980	
16427	98.9119	293.9709	76.0378	1283.4863	
6153	98.9119	150.6609	30.1435	624.8155	220.2539
16426	98.8601	445.4373	127.9431	1680.7222	492.3771
15569	98.8601	79.5913	23.8286	453.5891	185.8575
15570	98.7047	177.3863	33.8858	624.5648	205.6038
15438	98.7047	78.9779	17.4427	239.1726	61.9151
15572	98.6528	258.6041	46.1393	1039.6946	421.1834
17739	98.6528	15.4303	9.4566	103.6351	45.2012
4130	98.4974	61.2480	21.2773	243.1962	73.8824
18018	98.3938	570.0360	50.5394	915.5382	131.1932
20482	98.2383	6403.8013	1409.8117	1600.0454	881.6389
4467	98.2383	316.5336	74.2216	868.8061	273.1092
2413	98.0829	393.6166	25.8964	628.0039	103.0437
17063	97.9793	190.2210	73.2469	62.1965	24.2742
18541	97.9275	2922.2450	346.1391	1704.9167	296.4814
25702	97.9275	1261.0071	209.6912	715.4030	124.5918
15409	97.8756	1357.7633	248.1126	526.2359	158.9371
14989	97.8756	425.8114	34.0340	731.4218	156.3189
16420	97.8238	217.8023	16.7923	328.5433	49.3070
8137	97.8238	168.5100	14.2689	307.4580	67.1326
6451	97.8238	71.3897	11.3390	161.7444	46.7828
4468	97.8238	87.6101	25.7620	262.8633	84.0179
17064	97.7202	130.5931	54.8801	44.3384	18.6413
25354 5049	97.7202	20.4040	4.4352	-11.0156	14.5137
	97.6166	363.0054	70.0509	739.1010	168.4697
26030	97.5648	2307.6020	329.0437	1120.6411	311.6302
16938 17687	97.4611	3439.4409	525.2792	2017.9291	347.7134
12639	97.4093	47.6730	4.3707	86.8021	19.2858
11115	97.4093	2790.0180	354.1100	1711.9500	272.3493
25691	97.4093 97.3057	72.2707	15.0501	0.3074	22.2583
19244	97.3057	1740.7939 2814.2426	305.2158	1038.8671	189.4342
15884	97.2539		322.2026	1805.7654	295.1347
16918	97.2539	422.5439 3050.6176	22.9208	723.9240	187.2425
16953	97.2539	2207.6737	559.0742	1652.1325	378.1626
15408	97.2021	525.5060	341.0509	1297.4032	254.3387
10498	97.2021	2408.9659	96.4312	264.8164	76.4260
20812	97.2021	2893.6953	311.0810	1372.0887	260.9108
15876	97.0984	2416.0907	338.0681	1737.4178	310.0129
18606	97.0466	1476.4840	321.7240	1512.9364	235.4590
25671	96.9430	324.9419	266.8140	819.8315	169.2263
18611	96.9430	3369.4430	104.2810 364.8138	107.2333	60.3073
4259	96.9430	1589.8659	190.8676	2174.7458	408.7371
16780	96.8912	132.2681	14.2080	1025.3792	173.3154
20807	96.8912	2241.1979	298.0859	70.4168	19.8154
17066	96.8912	215.0906		1305.3610	278.8448
20844	96.8912	2864.5389	53.7980	99.7993	31.2393
25716	96.8394	2028.4791	435.1075	1576.0314	350.9617
207 10	50.0534	2020.4791	531.6447	800.4289	345.3637

	BICore To ): 168, 336 I		Atty. R	ef. 44921-5090-0	01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
600	96.8394	213.4506	13.3187	328.3785	62.6328
4843	96.7876	291.0541	19.8623		72.7306
10109	96.7876	2069.1210	324.8451	1261.4348	218.7584
22386	96.7358	80.5583	28.6494	347.3349	170.1627
23250	96.6839	183.6347	12.5762	249.1065	35.0313
17204	96.6321	6358.7441	945.0776		854.3594
18542	96.6321	3140.0374	530.3402	1708.6288	425.3914
17688	96.5285	104.5840	4.9652	153.8945	29.2358
25647	96.5285	650.2900	186.4918	245.2281	126.6846
20617	96.5285	637.2713	207.0703	247.7263	121.2902
20925	96.4767	2342.9944	432.2362	1295.9411	323.2822
24264	96.4767	104.7866	21.8573	225.9280	54.9011
25563	96.4767	290.8960	20.1097	451.4426	96.7035
22731	96.4249	346.8796	16.1784	509.2853	93.2138
25679	96.4249	2129.1789	260.7942	1410.0568	268.2938
17712	96.4249	1109.7723	136.2022	1728.1144	289.9941
815	96.3731	2569.5176	392.7349	1481.5505	341.7463
17203	96.2176	4186.3824	491.1366	2494.9794	708.9406
18107	96.1658	702.3460	107.3752	412.5137	101.4433
7148	96.1658	200.7584	19.5780	307.2611	61.5694
9501	96.1140	184.4760	22.5023	118.2863	22.9688
18573	96.1140	240.8931	12.9388	340.8501	59.9261
17507	96.1140	231.2563	37.7161	440.2135	233.0538
1324	96.0622	330.9949	70.2060	605.9855	116.1673
4235	96.0622	201.4274	20.5710	326.0595	67.8226
17729	95.9585	1997.6343	242.8843	1321.3071	222.1143
15622	95.9585	70.8847	27.2907	222.8664	74.5699
17305	95.9585	7999.9451	1186.2557	4595.7351	1347.7841
10878	95.9067	2431.5641	292.1642	1628.2188	275.3474
961	95.9067	198.4494	29.5912	108.3837	57.2710
20745	95.8031	238.6544	25.7200	358.9398	58.0826
23709	95.8031	800.6951	103.7246	1254.5985	283.8660
11116	95.5959	183.2179	22.4486	36.4703	57.4160
16204	95.5959	1805.7873	167.8985	1271.9758	199.9240
2697	95.5440	3434.9464	560.8371	2244.3433	399.1160
15462	95.5440	35.9110	6.6465	75.7932	21.5556
18054	95.4922	65.8467	8.7215	126.5834	31.3531
18686	95.4922	1443.8354	186.2988	905.4019	225.7265
14504	95.4922	281.8043	46.7470	529.6716	116.9672
20630	95.4922	726.8354	195.8009	344.2470	142.6618
16613	95.4922	39.2830	12.2343	95.9704	27.5393
19222	95.3886	743.1596	63.3540	1114.0604	186.0991
17301	95.2850	210.4029	40.2492	503.6307	155.1346
19768	95.2850	565.7791	47.6790	797.6082	121.6587
21672	95.2332	216.0100	29.2689	375.5837	81.6117
20810	95.2332	3040.8551	331.0841	2016.2404	403.9704
5050	95.2332	272.5644	48.9227	517.4997	119.5573
18539	95.2332	282.9924	41.5679	560.5237	195.9350
6158	99.0155	148.6926	39.9027	709.5511	245.4852
6155	98.9119	839.7963	183.1871	2774.3626	698.1220
22716	98.9119	36.5181	8.5602	173.9637	67.4242
16909	98.9119	497.3220	47.7755	280.6717	73.6400

TABLE 5G:	BICore To	x Markers	Atty. R	ef. 44921-5090-0	1-WO/2105485
Timepoint(s	): 168, 336 i	irs			`
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6156	98.7047	178.0871	39.9577	654.5772	199.8355
5596	98.7047	48.9820	5.3339	146.3433	50.3921
2852	98.6010	135.1614	25.3872	432.1795	135.3618
17358	98.3938	3310.9373	322.5242	1747.5259	419.0780
24072	98.3420	58.5759	11.6797	18.3395	10.2706
3780	98.2902	1800.6897	455.8818	316.9184	306.7920
19094	98.0311	3011.3891	403.2544	1729.2848	310.2172
24310	98.0311	86.8350	30.7300	309.9478	93.2590
23927	97.9793	472.3723	134.9741	110.8209	89.1579
2046	97.9275	47.7550	10.7271	138.1307	44.9137
4585	97.8238	2159.8191	200.3457	1318.4097	247.8512
15260	97.8238	656.9087	60.8892	376.9953	93.6401
18915	97.8238	398.7401	70.5634	954.6520	267.1831
6984	97.7202	500.2131	65.2292	216.7627	79.0802
13161	97.5648	5.6410	12.7952	143.5556	64.4179
24521	97.5648	11366.8939	2042.0096	5437.9333	1388.7504
26133	97.5130	651.9266	291.6274	185.0980	106.2449
9412	97.4611	169.6379	42.7022	46.2183	51.4983
2103	97.4093	4941.1484	817.8208	2596.4749	595.6015
23687	97.3057	7377.1766	1444.2335	3148.1445	977.5333
18151	97.3057	559.5641	76.8065	329.0736	68.4657
6205	97.2021	277.4434	24.5348	437.3203	83.2028
10820	97.1503	3615.7761	669.0368	1860.5891	450.3442
26213	96.9948	1580.0974	522.2003	577.7325	256.1040
6154	96.9948	319.6549	207.7988	1576.8974	653.0310
5111	96.9948	136.3579	16.9041	365.5307	127.5558
18125	96.9948	189.1237	21.4034	301.4020	62.3747
22717	96.9430	213.9299	65.0869	656.9763	184.0001
3271	96.9430	281.7454	23.0722	472.8696	88.7627
19783	96.8912	989.0276	159.3433	599.8644	106.5752
6157	96.8912	842.2940	210.1032	2306.7073	831.1001
24268	96.7876	48.9863	15.7598	152.4360	46.6498
22930	96.7876	65.0423	24.9483	332.5378	143.1938
10971	96.7358	89.8383	19.1440	42.0165	15.5461
22387	96.7358	1315.2459	88.4913	912.7375	160.7472
17155	96.5803	1013.4049	154.9830	552.1988	158.2252
18854	96.5803	71.1124	18.6730	192.2503	50.5585

LCC IC	): 24 hrs		<del></del>		•
	LDA Score		SD Tox	Mean Nontox	SD Nontox
15867	99.1736				
23651	98.8120				160.6078
21000	98.3988	10.9638		22.8672	19.9926
24859	97.9855	102.9063	22.0298	22.8379	19.8724
16696	97.7273	197.2963	8.1224	302.8795	59.3996
17215	97.6756	86.5150	6.6657	168.1356	43.5737
23868	97.6756	67.3360	8.0151	218.8534	231.6084
15191	97.5723	517.4620	128.7504	183.9005	563.8396
12580	97.5207	33.8560	1.6003	19.5502	9.4737
20589	97.4690	490.8580	164.2942	148.3860	88.2875
1523	97.2624	149,7348	3.2732	212.0033	52.0601
19549	97.2107	5.7080	2.5474	42.7500	22.3031
16918	97.1591	2852.3920	322.0410	1657.2857	390.3238
22321	97.1074	391.6135	39.1905	173.4379	96.5339
11997	97.1074	460.1595	17.7043	677.7722	123.6360
574	96.8492	972.5473	57.9899	604.4586	158.0302
25802	96.7975	954.9178	117.8821	599.8418	153.6054
15640	96.7459	287.6770	20.3299	141.2940	60.3599
15641	96.6426	379.4980	27.4243	173.5264	86.4782
18122	96.4876	81.8923	21.0338	18.9802	40.6070
20983	96.4360	332.2185	11.0218	478.6360	109.8306
19040	96.3843	413.5660	26.6772	254.2652	77.2862
17383	96.3843	88.0838	27.3070	10.2342	
9124	96.3326	336.2755	42.6549	213.0618	30.9053
4222	96.1777	1250.4435	53.0154	980.8498	41.8746
24886	96.1260	2331.6990	152.3483	1651.3200	131.6958
14360	96.0744	36.1613	0.5510	44.3514	275.6352
18798	96.0744	95.4560	5.1882		21.3431
8212	95.9194	614.5205	13.5571	138.5010	28.2251
762	95.7645	152.8628	1.6805	494.4720	131.8211
21950	95.7645	561.8000	19.6699	139.5041	37.1730
22739	95.6612	268.0643	10.2046	768.0125	138.7978
3465	95.5579	58.9048		360.3747	61.7718
1991	95.5062	224.6573	9.0152	111.0300	28.1320
90	95.4029	107.5228	17.4598	136.2908	59.3718
4544	95.3512	107.7215	3.0356	86.4029	43.9802
17448	95.3512		6.2954	178.6031	50.1877
18881	95.3512	-9.6045	2.7934	21.3649	22.5631
25458	95.2996	31.2700	2.8162	18.6383	8.1524
19341		110.9095	33.1610	41.1543	67.0274
24885	95.2479	43.4835	1.7363	66.3774	21.9607
15201	95.1963	1835.8660	223.0581	1171.0566	257.6347
16847	95.1963	3447.9930	458.2868	2274.6547	448.0018
	95.1446	1621.7053	248.3307	1115.3956	189.9822
20462	95.1446	1536.0618	362.5987	1030.1922	185.5571
20933	95.0930	140.2160	5.3279	183.7717	499.2990
11849	95.0930	1348.1815	101.5179	940.8007	195.9938
7854	95.0413	34.1235	1.8506	26.2060	24.5871
243	94.9897	913.7335	133.1663	620.8041	113.0845
16330	94.9897	208.1708	4.2219	172.8530	33.5156
19190	94.9380	801.4863	75.5527	497.5050	140.9583
17105	94.9380	2202.6573	193.9224	1532.7357	345.1211
14247	94.9380	28.7498	0.7245	25.4779	13.2337

202         94,7831         28,1825         1,2809         42,2180         14,854           815         94,7314         2351,3360         351,2531         1485,8238         349,830           15135         94,6798         1485,1895         200,7632         995,1288         219,005           23869         94,6798         6,7505         3,2502         42,9405         61,786           15840         94,6798         15,1773         4,6253         37,7956         12,356           17807         94,6798         3050,4535         95,1550         2477,4667         409,946           21917         94,6281         86,9305         4,6467         137,4482         40,174           20417         94,6281         171,0010         5,7342         236,4262         62,647           15106         94,5764         3986,4233         554,1719         2605,0488         527,257           19393         94,5248         3108,5365         254,2765         2115,2642         466,009           20614         94,4731         362,560         2,84765         2115,2642         466,009           19148         94,4731         162,5390         1,8085         241,5954         48,051           20812<		CLENBUTER	ROL	Atty. Re	f. 44921-5090-01	-WO/2105485
16434			Mean Tox	SD Tox	Mean Nontox	SD Nontox
17214   94.8864   72.1373   6.2647   118.7357   34.029     17214   94.8864   63.4888   7.5354   106.4495   25.157     16215   94.8347   316.8333   41.2945   212.9282   44.666     15440   94.8347   24.4390   0.5360   30.9137   9.385     23340   94.8347   317.6923   10.8281   245.6657   47.677     202   94.7831   28.1825   1.2809   42.2180   14.85     815   94.7314   2351.3360   351.2531   1485.8238   349.890     16852   94.7314   202.9568   4.4363   255.8691   49.633     15135   94.6798   1485.1895   200.7632   995.1288   219.035     23869   94.6798   6.7505   3.2502   42.9405   61.786     15840   94.6798   3050.4535   95.1550   247.4667   409.946     17807   94.6281   86.9305   4.6467   137.4482   40.174     20417   94.6281   86.9305   4.6467   137.4482   40.174     20417   94.6281   392.8538   28.4966   276.7454   55.008     18305   94.5248   392.8538   28.4966   276.7454   55.008     19333   94.5248   392.8538   28.4966   276.7454   466.009     20614   94.4731   33.2960   0.8997   17.2533   215.002     20812   94.4215   2524.2418   310.7088   37.268   2415.954   48.051     191387   94.4215   2524.2418   310.7088   37.269   241.9954   48.051     19148   94.4731   33.8333   7.2284   89.3026   43.477     17663   94.3698   535.2730   120.9507   381.9249   189.088     1407   94.6389   535.2730   120.9507   381.9249   189.088     15136   94.1116   1550.7555   126.5704   1071.5638   272.976     12700   94.0599   1565.0848   156.3505   149.7767   190.533     19489   94.8333   37.2284   89.3026   43.477     1763   94.003   308.1465   6.2251   370.5876   101.830     19470   93.8533   325.4738   485.8578   1864.4015   64.939     16552   93.9566   71.9468   10.6071   39.0058   18.927     17100   93.8533   1816.9928   108.1590   1309.9654   296.851     19470   93.8533   325.4738   485.8578   1864.4315   64.939     14700   94.0599   1565.0848   156.590   309.9654   296.851     15136   94.1116   1550.7555   126.5704   1071.5638   272.976     15020   39.8533   1816.9928   108.1590   1309.9654   296.851     14890   93.8533	16434	94.8864				
17214   94.8864   63.4888   7.5354   106.4495   25.157   16215   94.8347   316.8333   41.2945   212.9282   44.664   15440   94.8347   24.4390   0.5360   30.9137   9.385   23340   94.8347   317.6923   10.8281   245.6657   47.677   202   94.7831   28.1825   1.2809   42.2180   14.858   15   94.7314   2351.3360   351.2531   1485.8238   349.838   16852   94.7314   202.9568   4.4363   255.8691   49.633   15135   94.6798   1485.1895   200.7632   995.1288   219.005   23669   94.6798   6.7505   3.2502   42.9405   61.768   15840   94.6798   15.1773   4.6253   37.7956   12.356   17807   94.6798   3050.4535   95.1550   2477.4667   409.946   40.9474   20417   94.6281   86.9305   4.6467   137.4482   40.174   20417   94.6281   86.9305   4.6467   137.4482   40.174   20417   94.6281   86.9305   45.1719   2605.0488   527.257   13939   34.5248   392.8538   28.4966   276.7454   55.008   20614   94.4731   33.2960   0.8997   17.2533   215.002   20614   94.4731   33.2960   0.8997   17.2533   215.002   21944   94.4731   33.2960   0.8997   17.2533   215.002   21944   94.4731   62.5390   12.0865   241.5954   48.012   21944   94.4731   62.5390   12.0865   241.5954   48.012   216.639   94.4215   2524.2418   310.7088   1742.5280   321.419   1387   94.4215   24.3165   8.4346   60.1168   18.515   21663   94.3698   535.2730   120.9507   381.9249   199.068   44.079   94.3182   44.3680   4.4238   77.2069   21.930   4407   94.3182   44.3680   4.4238   77.2069   21.930   16553   94.1116   888.3135   96.7579   619.6440   131.646   5667   94.0599   156.0848   155.3555   149.7767   190.533   12700   94.0599   156.0848   155.3555   149.7767   190.533   12700   94.0599   156.0848   155.3555   149.7767   190.533   12700   94.0599   156.0848   155.3555   149.7767   190.536   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12.976   12						
16215						
15440   94.8347   24.4390   0.5360   30.9137   9.385   23340   94.8347   317.6923   10.8281   245.6657   47.677   202   94.7831   28.1825   1.2809   42.2180   14.854   815   94.7314   2351.3360   351.2531   1485.8238   349.890   16852   94.7314   202.9568   4.4363   255.8691   49.633   15155   94.6798   1485.1895   200.7632   995.1288   219.005   23869   94.6798   1485.1895   200.7632   995.1288   219.005   23869   94.6798   15.1773   4.6253   37.7956   12.356   17807   94.6798   3050.4535   95.1550   2477.4667   409.946   21917   94.6281   86.9305   4.6467   137.4482   40.174   20417   94.6281   36.9305   4.6467   137.4482   40.174   20417   94.6281   371.0010   5.7342   236.4262   62.647   15106   94.5764   3986.4233   554.1719   2605.0488   527.257   19393   94.5248   392.8538   28.4966   276.7454   55.008   18305   94.5248   3108.5365   254.2765   2115.2642   466.009   20614   94.4731   33.2960   0.8997   17.2533   215.002   2014   94.4731   33.2960   0.8997   17.2533   215.002   2014   94.4731   162.5390   12.0865   241.5954   48.051   21663   94.3698   535.2730   120.9507   381.9249   189.068   4407   94.3182   44.3680   4.4238   77.2069   21.930   16553   94.2149   138.8333   7.2284   89.3026   43.477   17563   94.1632   2528.9760   243.6174   1831.8476   310.851   17104   94.1116   888.3135   96.7579   619.6440   131.646   15136   94.0083   305.4665   6.2251   370.5876   01.830   24536   94.0083   305.4665   6.2251   370.5876   01.830   24536   94.0083   305.4665   6.2251   370.5876   01.830   24536   94.0083   305.4665   6.2251   370.5876   01.830   24536   94.0083   305.4665   6.2251   370.5876   01.830   24536   94.0083   375.6370   40.6999   49.8906   13.812   44.3660   4.238   77.2069   24.3674   831.8476   310.851   149.0086   37.5056   370.5876   01.830   370.5866   93.8533   363.4873   5.8225   39.6359   17.007   19.533   250.009   25.2875   126.5704   1071.5638   272.976   272.476   272.476   272.476   272.476   272.476   272.476   272.476   272.476   272.476   272.476   272.476   272.476   2						
23340   94.8347   317.6923   10.8281   245.6657   47.677     202   94.7831   28.1825   1.2809   42.2180   14.854     815   94.7314   2351.3360   351.2531   1485.8238   349.890     16852   94.7314   202.9568   4.4363   255.8691   49.633     15135   94.6798   1485.1895   200.7632   995.1288   219.005     23869   94.6798   6.7505   3.2502   42.9405   61.786     15840   94.6798   15.1773   4.6253   37.7956   12.356     17807   94.6798   3050.4535   95.1550   2477.4667   409.946     21917   94.6281   86.9305   4.6467   137.4482   40.174     20417   94.6281   171.0010   5.7342   236.4262   62.647     15106   94.5764   3986.4233   554.1719   2605.0488   527.257     19393   94.5248   392.8538   28.4966   276.7454   55.008     18305   94.5248   3108.5365   254.2765   2115.2642   466.009     20614   94.4731   33.2960   0.8997   17.2533   215.002     19148   94.4731   162.5390   12.0865   241.5954   48.051     19138   94.4215   2524.2418   310.7088   1742.5280   321.419     11387   94.4215   24.3165   8.4346   60.1168   18.515     21663   94.3698   535.2730   120.9507   381.9249   189.068     4407   94.3182   44.3680   4.4238   77.2069   21.930     16553   94.2149   138.8333   7.2284   89.3026   43.477     17563   94.1616   1550.7555   126.5704   1071.6388   272.976     5667   94.0599   15.2876   126.5704   1071.6388   272.976     5667   94.0999   1565.0848   155.3555   1149.7767   190.533     18097   94.0083   308.1465   6.2251   370.5876   101.830     24536   94.0083   336.5868   76.3393   998.3660   488.713     8097   94.0083   308.465   6.2251   370.5876   101.830     24536   94.0083   336.5868   76.3393   998.3660   48.713     1970   93.8533   325.4738   485.8578   1864.4315   643.904     14970   93.8533   3816.928   10.8590   130.9065   43.649     14970   93.8533   37.5434   80.6715   20.667     583   93.8017   47.940   48.105   80.6715   20.667     583   93.8017   47.3378   485.8578   1864.4315   643.904     14970   93.8533   1816.9228   10.8590   130.9055   48.907     1488   93.5950   102.2283   1.1813   98.9079				<u> </u>		
202         94.7831         28.1825         1.2809         42.2180         14.854           815         94.7314         2351.3360         351.2531         1485.8238         349.830           15135         94.6798         1485.1895         200.7632         995.1288         219.005           23869         94.6798         6.7505         3.2502         42.9405         61.786           15840         94.6798         15.1773         4.6253         37.7956         12.356           17807         94.6798         3050.4535         95.1550         2477.4667         409.946           21917         94.6281         86.9305         4.6467         137.4482         40.174           20417         94.6281         171.0010         5.7342         236.4262         62.647           19393         94.5248         398.8538         28.4966         276.7454         55.008           18305         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         33.2960         0.8997         17.2533         215.002           219148         94.4731         162.5390         12.0865         241.5954         48.051           20812						47.6778
815         94.7314         2351.3360         351.2531         1485.8238         349.890           16852         94.7314         202.9568         4.4363         255.8691         49.91           15135         94.6798         1485.1895         200.7632         995.1288         219.005           23869         94.6798         6.7505         3.2502         42.9405         61.786           15840         94.6798         15.1773         4.6253         37.7956         12.366           17807         94.6798         3050.4535         95.1550         2477.4667         409.946           21917         94.6281         86.9305         4.6467         137.4482         40.174           20417         94.6281         171.0010         5.7342         236.4262         62.647           15106         94.5764         398.64233         554.1719         2605.0488         527.257           19393         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         132.2960         0.8997         17.2533         215.002           19148         94.4731         162.5390         12.0865         241.5954         48.051           2081						14.8548
16852   94.7314   202.9568   4.4363   255.8691   49.633   15135   94.6798   1485.1895   200.7632   995.1288   219.005   23869   94.6798   6.7505   3.2502   42.9405   61.786   15840   94.6798   15.1773   4.6253   37.7956   12.356   17807   94.6798   3050.4535   95.1550   2477.4667   409.946   21917   94.6281   86.9305   4.6467   137.4482   40.174   20417   94.6281   171.0010   5.7342   236.4262   62.647   15106   94.5764   3986.4233   554.1719   2605.0488   527.257   19393   94.5248   3108.5365   254.2765   2115.2642   466.009   20614   94.4731   33.2960   0.8997   17.2533   215.002   20614   94.4731   33.2960   0.8997   17.2533   215.002   19148   94.4731   162.5390   12.0865   241.5954   48.051   21387   94.4215   224.3165   8.4346   60.1168   18.515   21663   94.3698   535.2730   120.9507   381.9249   189.068   4407   94.3182   44.3680   4.4238   77.2069   21.936   44.074   94.3182   44.3680   4.4238   77.2069   21.936   44.074   94.1116   888.3135   96.7579   619.6440   131.646   15136   94.1116   1550.7555   126.5704   1071.5638   272.976   272.576   272.576   272.576   272.576   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.5776   272.57776   272.57776   272.57776   272.57776   272.57776   272.5777776   272.57777777777777777777777777777777777						
15135	16852	94.7314	202.9568			49.6336
23869	15135	94.6798	1485.1895	200.7632	995.1288	219.0055
17807	23869	94.6798	6.7505	3.2502	42.9405	61.7863
21917         94.6281         86.9305         4.6467         137.4482         40.174           20417         94.6281         171.0010         5.7342         236.4262         62.647           15106         94.5764         3986.4233         554.1719         2605.0488         527.257           19393         94.5248         392.8538         28.4966         276.7454         55.008           18305         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         33.2960         0.8997         17.2533         215.002           19148         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851	15840	94.6798	15.1773	4.6253	37.7956	12.3562
20417	17807	94.6798	3050.4535	95.1550	2477.4667	409.9463
15106         94.5764         3986.4233         554.1719         2605.0488         527.257           19393         94.5248         392.8538         28.4966         276.7454         55.008           18305         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         2524.2418         310.7088         1742.5280         321.419           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1049         1565.0848         155.3555         1149.7767         190.533 <tr< td=""><td>21917</td><td>94.6281</td><td>86.9305</td><td>4.6467</td><td>137.4482</td><td>40.1744</td></tr<>	21917	94.6281	86.9305	4.6467	137.4482	40.1744
19393         94.5248         392.8538         28.4966         276.7454         55.008           18305         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         33.2960         0.8997         17.2533         215.002           19148         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.9026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976 <td< td=""><td>20417</td><td>94.6281</td><td>171.0010</td><td>5.7342</td><td>236.4262</td><td>62.6471</td></td<>	20417	94.6281	171.0010	5.7342	236.4262	62.6471
18305         94.5248         3108.5365         254.2765         2115.2642         466.009           20614         94.4731         33.2960         0.8997         17.2533         215.002           19148         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         1550.7555         126.5704         1071.5638         272.976	15106	94.5764	3986.4233	554.1719	2605.0488	527.2574
20614         94.4731         33.2960         0.8997         17.2533         215.002           19148         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536 <td>19393</td> <td>94.5248</td> <td>392.8538</td> <td>28.4966</td> <td>276.7454</td> <td>55.0084</td>	19393	94.5248	392.8538	28.4966	276.7454	55.0084
19148         94.4731         162.5390         12.0865         241.5954         48.051           20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24		94.5248	3108.5365		2115.2642	466.0092
20812         94.4215         2524.2418         310.7088         1742.5280         321.419           11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         725.6370         40.6999         490.8906         133.812           1	20614	94.4731		0.8997	17.2533	215.0029
11387         94.4215         24.3165         8.4346         60.1168         18.515           21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         316.46           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552		94.4731	162.5390		241.5954	48.0514
21663         94.3698         535.2730         120.9507         381.9249         189.068           4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.055         17.007           1710	20812	94.4215	2524.2418	310.7088	1742.5280	321.4198
4407         94.3182         44.3680         4.4238         77.2069         21.930           16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.058         18.927           16220         93.8533         63.4873         5.8225         39.6359         17.007           17100 <td></td> <td>94.4215</td> <td>24.3165</td> <td></td> <td>60.1168</td> <td>18.5151</td>		94.4215	24.3165		60.1168	18.5151
16553         94.2149         138.8333         7.2284         89.3026         43.477           17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         1816.9928         108.1590         1309.9654         296.851	1					189.0689
17563         94.1632         2528.9760         243.6174         1831.8476         310.851           17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010						21.9306
17104         94.1116         888.3135         96.7579         619.6440         131.646           15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583 <td></td> <td></td> <td></td> <td></td> <td></td> <td>43.4774</td>						43.4774
15136         94.1116         1550.7555         126.5704         1071.5638         272.976           5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372						310.8510
5667         94.0599         1565.0848         155.3555         1149.7767         190.533           12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372						131.6469
12700         94.0599         15.2875         1.2689         26.5546         20.724           7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546						
7163         94.0083         308.1465         6.2251         370.5876         101.830           24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027						
24536         94.0083         1336.5868         76.3393         998.3660         188.713           8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488						
8097         94.0083         725.6370         40.6999         490.8906         133.812           16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488						
16552         93.9566         71.9468         10.6071         39.0058         18.927           16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446						
16220         93.8533         3225.4738         485.8578         1864.4315         643.904           23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875						
23781         93.8533         63.4873         5.8225         39.6359         17.007           17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185						
17100         93.8533         1816.9928         108.1590         1309.9654         296.851           13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
13568         93.8533         75.5443         6.1284         113.8145         27.010           14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412		·				
14970         93.8017         41.7940         4.8105         80.6715         20.567           583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
583         93.8017         87.3378         18.3387         171.2200         61.463           19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
19372         93.7500         182.6410         60.6879         72.6182         72.378           546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
546         93.7500         137.4413         19.6260         230.4553         50.899           21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
21027         93.7500         97.0588         7.6188         154.9087         44.800           20427         93.6983         1679.2218         278.6166         1200.9108         217.229           1488         93.5950         102.2283         1.1813         98.9079         21.263           3446         93.5950         19.6823         2.4857         35.2313         11.394           15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
20427     93.6983     1679.2218     278.6166     1200.9108     217.229       1488     93.5950     102.2283     1.1813     98.9079     21.263       3446     93.5950     19.6823     2.4857     35.2313     11.394       15875     93.5434     2132.7075     125.5746     1566.0871     298.003       10185     93.5434     10.2845     14.2827     31.2524     10.412						
1488     93.5950     102.2283     1.1813     98.9079     21.263       3446     93.5950     19.6823     2.4857     35.2313     11.394       15875     93.5434     2132.7075     125.5746     1566.0871     298.003       10185     93.5434     10.2845     14.2827     31.2524     10.412						
3446     93.5950     19.6823     2.4857     35.2313     11.394       15875     93.5434     2132.7075     125.5746     1566.0871     298.003       10185     93.5434     10.2845     14.2827     31.2524     10.412						
15875         93.5434         2132.7075         125.5746         1566.0871         298.003           10185         93.5434         10.2845         14.2827         31.2524         10.412						
10185 93.5434 10.2845 14.2827 31.2524 10.412						
						16.8105
						460.0075
						377.4156
						155.0918

TABLE 5H: Timepoint(s	CLENBUTER	ROL	Atty. Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10269	98.6054		73.6783	1983.5484	405.8705
. 16917	98.6054		92.3903	1493.2819	318.9380
16394	98.4504	1993.7018	204.4622	777.8052	287.2109
5228	98.3988	264.5018	87.2998	16.9613	42.9061
9150	98.3988		11.6271	625.5024	106.3371
13826	98.3471	959.6915	29.5016	1391.9748	237.8672
4049	98.3471	232.0925	71.2955	43.4387	130.5291
19195	98.2955		237.4438	1646.6852	385.3403
23521	98.2438	15.8948	10.1974	85.5762	34.5074
4048	98.2438	112.3103	34.8237	18.8858	77.2543
14342	98.1921	169.8480	19.1182	82.8344	
19191	98.1921	1912.4983	226.5763	912.4426	269.2696
21465	98.1405	398.0138	5.2214	282.1062	96.4138
19424	98.0888	22852.8073	1223.8235	10347.0804	4848.3980
21195	97.9855	85.3645	2.0547	136.0304	39.9561
21509	97.9855	851.4765	90.0193	444.9262	134.9011
13070	97.8822	20.3425	6.5792	92.7588	
19456	97.7789	53.7898	13.3891	3.0805	
14431	97.6240		13.8465	45.8984	
18507	97.5723		54.0094	510.0488	
894	97.5723		71.4370	212.9295	78.5750
5132	97.5723		27.3536	1123.9945	230.3786
15476	97.5723		108.0037	302.1699	75.7980
6766	97.5207	442.2773	30.2284	190.8744	119.2936
14327	97.5207	92.8413	18.2257	-22.9178	
13267	97.3140	33.1610	4.2081	90.1076	
3132 895	97.3140 97.2107	423.2630	66.3606	207.8763	
15615	97.2107	190.0450 3745.5935	68.7690	60.1332 2517.3568	32.1107 580.3879
13831	97.1391	66.2998	141.6091 1.5392	65.2944	48.3849
3982	97.0558	99.4585	33.3773	267.5928	
20953	97.0558	541.4905	37.0747	839.0732	146.8665
16916	97.0041	436.7440	92.2636	892.1272	212.8023
19162	97.0041	4861.1903	641.2854	2851.0457	564.9066
13093	97.0041	753.5148	47.9504	1161.0444	236.7827
14642	96.9525		82.0127	189.7023	<b></b>
24209			24.0329		
20042	96.9008		271.6577	438.3391	252.0171
7844	96.9008		11.6162	147.1081	55.0968
15315	96.7459	4371.5658	256.4395		
10919	96.7459	<del> </del>	730.9256		660.8402
22183	96.7459		291.7861	2288.9363	
4834	96.7459		2.4637	49.5111	
17529	96.6942		3.0703		
19359	96.6942		348.1457	1991.9891	550.4905
21761	96.6942		14.7073		
15942	96.6426		17.0105		
15107	96.5909		4964.6238		
11598	96.5393		32.3996		
22318			29.3126		
12999			39.1895		
10820			269.0123		

TABLE 5H: Timepoint(s	CLENBUTER s): 24 hrs	ROL	Atty. Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24521	96.4360		1630.5121	5462.1901	1452.6442
22030		22085.9835	2981.2204	11062.6238	
3755		46.9560	17.4174	122,4291	39.8654
21189		1111.8165	148.7927	734.5168	
8728	96.2810	77.5193	13.7142	132.7466	
4893	00.2010	25.3940	44.0374	18.0604	
893		378.1673	73.8535	182.9926	66.3423
14929	96.2293	944.6818	123.9670	573.7854	134.7102
22914	96.2293	1737.1080	63.7535	2437.6827	483.1667
896	96.1777	49.6703	13.3825	7.9432	16.0018

TABLE 51: C Timepoint(s)	lenbuterolCöre : 24 hrs	Tox Markers	Atty. Re	f. 44921-5090-01	I-WO/2015485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1809	99.5868		90.6707	25.8207	73.5816
15867	99.1736		167.6115	38.0902	47.6847
11113	99.1219	87.7850	7.5655	36.0548	19.4047
23651	98.8120	194.9143	58.0033	43.9816	160.6078
21000	98.3988	10.9638	0.2819	22.8672	19.9926
24859	97.9855	102.9063	22.0298	22.8379	19.8724
15003	97.7273	833.1818	204.8023	93.6247	186.9025
16696	97.7273	197.2963	8.1224	302.8795	59.3996
17215	97.6756	86.5150	6.6657	168.1356	43.5737
23868	97.6756	67.3360	8.0151	218.8534	231.6084
15191	97.5723	517.4620	128.7504	183.9005	563.8396
12580	97.5207	33.8560	1.6003	19.5502	9.4737
20589	97.4690	490.8580	164.2942	148.3860	88.2875
15002	97.4174	846.2003	185.8784	207.2146	184.9231
1523	97.2624	149.7348	3.2732	212.0033	52.0601
19549	97.2107	5.7080	2.5474	42.7500	22.3031
16918	97.1591	2852.3920	322.0410	1657.2857	390.3238
22321	97.1074	391.6135	39.1905	173.4379	96.5339
11997	97.1074	460.1595	17.7043	677.7722	123.6360
574	96.8492	972.5473	57.9899	604.4586	158.0302
25802	96.7975	954.9178	117.8821	599.8418	153.6054
15640	96.7459	287.6770	20.3299	141.2940	60.3599
15641	96.6426	379.4980	27.4243	173.5264	86.4782
17736	96.6426	1148.7220	124.6063	622.3568	364.0063
18122	96.4876	81.8923	21.0338	18.9802	40.6070
20983	96.4360	332.2185	11.0218	478.6360	109.8306
19040	96.3843	413.5660	26.6772	254.2652	77.2862
17383	96.3843	88.0838	27.3070	10.2342	30.9053
9124	96.3326	336.2755	42.6549	213.0618	41.8746
4222	96.1777	1250.4435	53.0154	980.8498	131.6958
24886	96.1260	2331.6990	152.3483	1651.3200	275.6352
14360	96.0744	36.1613	0.5510	44.3514	21.3431
18798	96.0744	95.4560	5.1882	138.5010	28.2251
8212	95.9194	614.5205	13.5571	494.4720	131.8211
762	95.7645	152.8628	1.6805	139.5041	37.1730
21950	95.7645	561.8000	19.6699	768.0125	138.7978
22739	95.6612	268.0643	10.2046	360.3747	
3465	95.5579	58.9048	9.0152	111.0300	61.7718 28.1320
1991	95.5062	224.6573	17.4598	136.2908	
23731	95.4545	257.6383	25.4512		59.3718
90	95.4029	107.5228	3.0356	159.8238 86.4029	45.0087
4544	95.3512	107.7215	6.2954		43.9802
17448	95.3512	-9.6045	2.7934	178.6031	50.1877
18881	95.3512	31.2700	2.8162	21.3649	22.5631
25458	95.2996	110.9095	33.1610	18.6383	8.1524
19341	95.2479	43.4835	1.7363	41.1543	67.0274
24885	95.1963	1835.8660	223.0581	66.3774	21.9607
15201	95.1963	3447.9930	458.2868	1171.0566	257.6347
16847	95.1446	1621.7053		2274.6547	448.0018
20462	95.1446	1536.0618	248.3307	1115.3956	189.9822
20933	95.0930	140.2160	362.5987	1030.1922	185.5571
11849	95.0930	1348.1815	5.3279	183.7717	499.2990
110-10	90.0930	1340.1815	101.5179	940.8007	195.9938

LGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13480	95.0413	108.5698		161.7956	39.9240
7854	95.0413	34.1235		26.2060	
243	94.9897	913.7335		620.8041	113.0845
16330	94.9897	208.1708	4.2219	172.8530	33.5156
19190	94.9380	801.4863	75.5527	497.5050	140.9583
17105	94.9380	2202.6573	193.9224	1532.7357	345.1211
14247	94.9380	28.7498	0.7245	25.4779	13.2337
16434	94.8864	379.5328	21.2458	567.2230	119.8399
20896	94.8864	72.1373	6.2647	118.7357	34.0297
17214	94.8864	63.4888	7.5354	106.4495	25.1572
16215	94.8347	316.8333	41.2945	212.9282	44.6649
15440	94.8347	24.4390	0.5360	30.9137	9.3853
23340	94.8347	317.6923	10.8281	245.6657	47.6778
202	94.7831	28.1825	1.2809	42.2180	14.8548
815	94.7314	2351.3360	351.2531	1485.8238	349.8904
16852	94.7314	202.9568	4.4363	255.8691	49.6336
15135	94.6798	1485.1895	200.7632	995.1288	219.0055
23869	94.6798	6.7505	3.2502	42.9405	61.7863
15840	94.6798	15.1773	4.6253	37.7956	12.3562
17807	94.6798	3050.4535	95.1550	2477.4667	409.9463
21917	94.6281	86.9305	4.6467	137.4482	40.1744
20417	94.6281	171.0010	5.7342	236.4262	62.6471
15106	94.5764	3986.4233	554.1719	2605.0488	527.2574
19393	94.5248	392.8538	28.4966	276.7454	55.0084
18305	94.5248	3108.5365	254.2765	2115.2642	466.0092
20614	94.4731	33.2960	0.8997	17.2533	215.0029
19148	94.4731	162.5390	12.0865	241.5954	48.0514
20812	94.4215	2524.2418	310.7088	1742.5280	321.4198
11387	94.4215	24.3165	8.4346	60.1168	18.5151
21663	94.3698	535.2730	120.9507	381.9249	189.0689
4407	94.3182	44.3680	4.4238	77.2069	21.9306
16553	94.2149	138.8333	7.2284	89.3026	43.4774
17563	94.1632	2528.9760	243.6174	1831.8476	310.8510
17104	94.1116	888.3135	96.7579	619.6440	131.6469
20872	94.1116	1900.1203	134.8184	1375.7230	300.8359
15136	94.1116	1550.7555	126.5704	1071.5638	272.9769
5667	94.0599	1565.0848	155.3555	1149.7767	190.5336
12700	94.0599	15.2875	1.2689	26.5546	20.7245
7163	94.0083	308.1465	6.2251	370.5876	101.8306
24536	94.0083	1336.5868	76.3393	998.3660	188.7130
8097	94.0083	725.6370	40.6999	490.8906	133.8125
16552	93.9566	71.9468	10.6071	39.0058	18.9272
16220	93.8533	3225.4738	485.8578	1864.4315	643.9048
23781	93.8533	63.4873	5.8225	39.6359	17.0077
17100	93.8533	1816.9928	108.1590	1309.9654	296.8518
13568	93.8533	75.5443	6.1284	113.8145	27.0108
14970	93.8017	41.7940	4.8105	80.6715	20.5675
583	93.8017	87.3378	18.3387	171.2200	61.4637
22744	99.2252	26.3855	0.9038	56.3983	16.8105
23173	98.9669	3285.0910	237.6414	1561.3912	460.0075
23015	98.7603	133.8138	5.4560	77.9200	22.1910
18909	98.7603	937.3875	51.1807	1658.6110	377.4156

TABLE 5I: CI Timepoint(s):	enbuterolCore 24 hrs	Tox Markers	Atty. Re	f. 44921-5090-01	I-WO/201548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3250	98.7603	932.5275	75.0879	436.9967	155.0918
10269	98.6054	2964.3253	73.6783	. 1983.5484	
16917	98.6054	796.6000	92.3903	1493.2819	
15004	98.4504	1686.5413	198.8730	331.7738	260.3911
16394	98.4504	1993.7018	204.4622	777.8052	287.2109
5228	98.3988	264.5018	87.2998	16.9613	42.9061
9150	98.3988	425.9990	11.6271	625.5024	106.3371
13826	98.3471	959.6915	29.5016	1391.9748	
4049	98.3471	232.0925	71.2955	43.4387	
19195	98.2955	2867.3528	237.4438	1646.6852	385.3403
23521	98.2438	15.8948	10.1974	85.5762	34.5074
4048	98.2438	112.3103	34.8237	18.8858	
14342	98.1921	169.8480	19.1182	82.8344	27.6432
19191	98.1921	1912.4983	226.5763	912.4426	269.2696
21465	98.1405	398.0138	5.2214	282.1062	96.4138
19424	98.0888	22852.8073	1223.8235	10347.0804	4848.3980
5227	98.0888	· 386.4903	69.7187	152.5409	48.8669
4969	98.0372	178.1593	143.2056	-19.0442	46.4550
21195	97.9855	85.3645	2.0547	136.0304	39.9561
21509	97.9855	851.4765	90.0193	444.9262	134.9011
13070	97.8822	20.3425	6.5792	92.7588	36.1270
19456	97.7789	53.7898	13.3891	3.0805	36.1093
14431	97.6240	-11.4243	13.8465	45.8984	18.3298
18507	97.5723	890.7598	54.0094	510.0488	133.8710
894	97.5723	488.7110	71.4370	212.9295	78.5750
5132	97.5723	753.3963	27.3536	1123.9945	230.3786
15476	97.5723	534.1638	108.0037	302.1699	75.7980
6766	97.5207	442.2773	30.2284	190.8744	119.2936
14327	97.5207	92.8413	18.2257	-22.9178	40.5514
13267	97.3140	33.1610	4.2081	90.1076	35.5488
3132	97.3140	423.2630	66.3606	207.8763	67.9326
895	97.2107	190.0450	68.7690	60.1332	32.1107
15615	97.1591	3745.5935	141.6091	2517.3568	580.3879
13831	97.1074	66.2998	1.5392	65.2944	48.3849
3982	97.0558	99.4585	33.3773	267.5928	71.6883
20953	97.0558	541.4905	37.0747	839.0732	146.8665
16916	97.0041	436.7440	92.2636	892.1272	212.8023
19162	97.0041	4861.1903	641.2854	2851.0457	564.9066
13093	97.0041	753.5148	47.9504	1161.0444	236.7827
14642	96.9525	488.6555	82.0127	189.7023	97.4228
24209	96.9008	100.0273	24.0329	3.0026	41.9427
20042	96.9008	983.4830	271.6577	438.3391	252.0171
7844	96.9008	50.6993	11.6162	147.1081	55.0968
15315	96.7459	4371.5658	256.4395	2784.8724	703.2430
10919	96.7459	2680.9605	730.9256	842.5857	660.8402
22183	96.7459	3676.6128	291.7861	2288.9363	582.5234
4834	96.7459	96.4443	2.4637	49.5111	45.2846
17529	96.6942	47.9468	3.0703	91.7341	28.0182
19359	96.6942	3751.8920	348.1457	1991.9891	550.4905
21761	96.6942	239.5320	14.7073	398.1517	99.5533
15942	96.6426	187.9785	17.0105	335.3510	75.9353
15107	96.5909	13902.3560	4964.6238	5563.0289	2417.1411

TABLE 5I: ClenbuterolCore Tox Markers Atty. Ref. 44921-5090-01-WO/2015485							
Timepoint(s): 24 hrs							
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
11598	96.5393	32.8070	32.3996	191.2678	68.0074		
6015	96.4876	56.6675	17.6759	123.6439	33,7718		
22318	96.4876	81.2843	29.3126	222.9738			
12999	96.4360	438.6615	39.1895	337.9044	309.5522		
10820	96.4360	3053.7868	269.0123	1868.3510	470.1964		
24521	. 96.4360	9943.4675	1630.5121	5462.1901	1452.6442		
22030	96.3326	22085.9835	2981.2204	11062.6238	4208.6729		
3755	96.3326	46.9560	17.4174	122.4291	39.8654		
21189	96.2810	1111.8165	148.7927	734.5168	132.8529		
8728		77.5193	13.7142	132.7466	23.6850		
4893	96.2810	25.3940	44.0374	18.0604	11.8525		
893	96.2810	378.1673	73.8535	182.9926	66.3423		
14929	96.2293	944.6818	123.9670	573.7854	134.7102		
22914	96.2293	1737.1080	63.7535	2437.6827	483.1667		
896	96.1777	49.6703	13.3825	7.9432	16.0018		

TABLE 5J: (Timepoint(s)	CLENBUTER	OL	Atty. Ro	ef. 44921-5090-0	1-WO/2105485
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
15191	100.0000	4848.8693	52.4545		
945	99.9484	134.3437	6.0542	-12.6304	
20740	99.8452	1340.9600		448.7949	
21147	99.6388	41.2293	0.3146	18.0479	
23806	99.5356	13.5270	2.1598	60.1184	25.4038
10878	99.4840	1562.5993	0.6741	1634.2253	283.9885
15190	99.3808	3461.6643	487.6477	233.6376	289.1438
15189	99.3808	3694.3787	503.1788	329.6283	310.6204
24716	99.3808	72.2240	15.4827	-7.4551	11.1158
13930	99.3292	413.1923	21.7059	110.7163	65.7014
23368	99.3292	218.4663	5.4029	406.7741	91.9227
2629	99.2776	55.7473	2.8928	21.3916	17.0047
20555	99.2776	11.0847	0.4816	27.9069	10.1556
23705	99.1744	97.8843	16.9478	265.3709	68.2915
25730	99.1228	399.7273	10.3185	224.2822	72.9452
15032	99.1228	31.6433	0.0984	38.3319	10.0770
21709	99.0712	543.6700	42.4038	253.3641	57.3564
23715	99.0712	94.8683	16.8393	9.9387	25.1145
20734	99.0196	339.2357	52.4888	94.2550	46.1601
20735	98.9680	365.3143	51.6737	101.7314	46.4986
2453	98.9164	30.1920	0.5191	53.0373	29.6950
21654	98.8648	572.4030	49.6785	203.9429	73.2109
8829	98.8648	505.2817	40.4494	267.9187	70.0353
20456	98.8132	3.9490	0.1578	22.3578	32.7458
3292	98.8132	223.3543	132.5781	-1.3809	27.7261
20702	98.8132	48.1140	6.8500	149.9956	64.9653
1228	98.7616	134.1093	1.0635	192.5306	40.0635
190	98.7616	64.3393	8.8634	-4.6305	25.2465
1824	98.7100	54.2170	5.5644	112.5691	25.7844
622	98.6584	17.4750	0.5633	45.3087	19.1055
11635	98.6584	69.4783	5.2594	135.5475	28.8584
10248	98.6584	421.4460	3.2657	307.6573	85.3529
6598	98.6584	65.9897	8.8529	23.0423	10.4630
19710	98.6584	89.4057	2.6970	48.5489	23.0344
3910	98.6068	118.1183	0.3407	145.4331	35.4410
17217	98.6068	257.0393	5.0020	405.4736	80.5839
21682	98.5552	184.9510	96.4663	-9.7676	54.3813
355	98.5036	94.2290	12.0303	9.8934	28.6974
16312	98.4520	285.0370	77.1088	67.3643	35.2005
17590	98.4520	90.5147	4.1203	48.3731	16.1590
18695	98.4520	217.4283	76.3852	35.0061	39.0491
733	98.4004	61.5817	0.4070	84.3478	27.7086
12580	98.4004	62.9820	11.9219	19.4747	9.1851
20127	98.2972	93.0660	7.5880	30.6760	20.9299
21115	98.2972	231.9090	10.3353	102.9476	53.5277
13005	98.2972	39.8907	4.6011	18.4472	7.3766
16029	98.2972	81.3597	27.8106	13.8859	19.1912
12978	98.2972	174.3473	30.0006	78.0023	51.9326
356	98.2456	165.1347	24.9797	41.3534	45.3902
25761	98.2456	27.2957	0.9103	10.3706	13.3401
18597	98.1940	278.9343	56.3348	94.5047	63.0400
14250	98.1940	352.4563	54.8318	145.1721	51.5631

TABLE 5J: ( Timepoint(s)	CLENBUTER	OL .	Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox
23044	98.1940	475.3620	72.5360	227.0935	51.1801
17556	98.1424	447.2547	4.5099		
21653	98.0908				
4512	98.0908	136.4383			
16030	98.0908	46.1457	31.5041	-6.3851	16.6583
17532	97.9876	166.7917	5.1276		
20161	97.9360	231.1267	105.1007		39.2601
357	97.9360	85.4477	19.1172	25.4313	18.0127
11203	97.9360	94.6200	7.3173	50.3291	16.1130
24019	97.9360	104.0047	17.2367	27.0516	
20614	97.8844	42.7467	1.2769	17.2406	
244	97.8844	196.2470	29.2619	63.1635	44.1915
16249	97.8844	42.3113	4.1646		48.6353
21683	97.8328	271.7527	92.8744	48.5984	33.9935
21657	97.7812	1448.9427	42.7862	954.6483	229.3213
9423	97.7812	477.6037	161.5233	167.2220	78.0601
25567	97.7812	138.8263	11.4355	67.6319	35.7175
1921	97.7812	181.9453	43.7093	81.4987	23.2311
19085	97.7296	103.0713	12.4950	52.2006	14.0771
5384	97.7296	329.6763	123.8702	42.1950	55.7465
16197	97.7296	160.0660	0.8063	161.5913	52.3362
18694	97.7296	85.3757	71.6381	-7.2428	25.7180
6153	97.6780	184.3700	32.7761	622.7538	222.1150
25072	97.6780	25.2017	6.0933	-6.1292	14.8911
17336	97.6780	38.8513	6.0298	15.6028	7.6997
21975	97.6264	509.6623	141.1960	180.4975	77.5763
24674	97.6264	39.2367	0.4022	33.2995	26.8241
1097	97.6264	113.2633	13.0527	303.5668	99.7399
17337	97.6264	274.9593	43.2507	141.9581	42.9696
11483	97.5748	255.8617	50.3113	99.1670	43.7596
15353	97.5748	54.9167	15.7750	19.2374	16.8658
2736	97.5748	211.0247	16.5303	358.5069	62.9998
15640	97.5232	143.6827	1.3775	141.8909	61.0655
804	97.5232	135.3840	26.7548	52.3425	29.2084
17301	97.5232	148.7857	39.6259	502.6110	155.5782
15570	97.5232	193.2387	49.8258	622.6698	207.2827
1295	97.5232	27.4813	7.8249	75.2102	19.2171
19086	97.4716	157.9933	20.0631	75.1020	28.1408
17658	97.4716	4.3310	3.7428	41.4360	20.5048
15301	97.4200	275.7437	37.4354	100.2767	84.4844
25090	97.3684	441.3950	92.2155	140.5463	81.4944
9240	97.3684	933.6183	14.9587	1170.9649	183.3070
1804	97.3684	8526.9873	141.8813	6460.4813	2181.5948
15468	97.3168	1408.7463	8.4715	1311.6313	222.0564
18349	97.2652	386.7867	121.1182	174.8812	62.5378
25883	97.2136	4776.3063	68.5880	3422.5719	915.0306
1609	97.2136	1613.7737	301.0304	872.2018	288.7875
20746	97.2136	272.4527	22.3631	492.5344	121.2973
15192	99.9484	245.0187	6.7325	70.9741	40.1911
18472	99.8968	261.0007	4.7005	67.1399	41.9499
3049	99.8968	1215.6133	12.3725	248.1956	126.6890
15984	99.8452	492.0337	8.2519	247.8687	57.6010

Timepoint(s): 6 hrs           GLGC ID         LDA Score         Mean Tox         SD Tox         Mean Nontox           15078         99.8452         83.0913         1.8675         206.596           6988         99.7420         148.1523         21.8467         12.928           24200         99.7420         1831.3610         51.0588         650.546           6844         99.7420         -15.2123         3.7916         158.496           23424         99.6388         495.8370         8.8821         309.6444	
6988     99.7420     148.1523     21.8467     12.928       24200     99.7420     1831.3610     51.0588     650.546       6844     99.7420     -15.2123     3.7916     158.496       23424     99.6388     495.8370     8.8821     309.6440	
24200     99.7420     1831.3610     51.0588     650.546       6844     99.7420     -15.2123     3.7916     158.496       23424     99.6388     495.8370     8.8821     309.6440	
6844     99.7420     -15.2123     3.7916     158.496       23424     99.6388     495.8370     8.8821     309.644	2 79.2454
23424 99.6388 495.8370 8.8821 309.644	
000.044	
13619 99.6388 260.5140 8.2960 135.077	
13240 99.5872 384.1850 26.2196 46.098	4 41.1069
5943 99.5872 2.5757 7.2305 117.642	
14209 99.5872 95.2830 0.6904 186.108	
2348 99.5872 235.1720 0.4753 280.729	
22765 99.5356 111.5053 3.6676 22.9079	
11467 99.5356 216.0630 2.1991 139.6584	
23025 99.4840 -14.1163 0.4311 27.135	
23471 99.4840 283.3903 14.5924 77.3412	
22381 99.4840 175.8840 6.3195 103.3030	
22081 99.4840 94.4403 6.8233 229.1844	
4626 99.4324 91.5253 4.1731 27.8457	_1
15157 99.4324 39.1553 0.2282 65.6418	
13353 99.3808 116.6127 5.6815 200.6327	
9059 99.3808 636.5220 39.1324 271.8312	
4018 99.3808 27.1503 4.5802 -11.2888	
22152 99.3292 57.3433 2.7280 -0.2891	<u></u>
7315 99.3292 214.7143 34.5163 10.0917	
15051 99.2776 615.7103 141.6182 119.3141	
5675 99.2776 1314.5897 174.2619 156.0669	
2331 99.2260 1230.4933 59.9098 389.0874	
11873 99.2260 964.7597 160.1007 147.0140	1
13266 99.2260 349.0043 67.6682 94.0862	
11871 99.2260 3316.3687 720.1954 43.1452	
3050 99.1744 615.6347 84.2415 87.5598	
2605 99.1744 36.3433 10.6257 302.2771	
21740 99.1228 697.6160 38.4674 276.3875	
6532 99.1228 933.6980 54.8957 449.2898	<del></del>
12435 99.1228 116.6823 3.7442 229.7496	
3619 99.1228 46.3957 0.1635 57.9467	
23038 99.1228 155.3643 13.0636 20.6635	
2729 99.0712 193.8313 10.9173 480.0400	
9796 99.0712 48.0417 4.7084 6.8524	
5210 99.0712 52.3533 1.8222 96.2220	
15892 99.0196 334.6830 40.5811 58.3685	
6715 99.0196 96.9987 8.6659 42.9113	i
15042 99.0196 147.0083 7.5527 44.1413	I
9083 99.0196 118.1750 6.7094 251.4949	
16631 99.0196 599.9867 112.2449 64.6549	
16976 99.0196 630.3390 110.0159 244.6155	
4797 98.9680 239.9153 2.9022 150.0514	
8477 98.9164 1373.4903 73.9002 595.5884	
18473 98.9164 502.5353 39.9997 204.2286	
24375 98.9164 168.6763 3.3642 109.8936	
3207 98.9164 -77.1093 28.2336 241.8528	
13634 98.8648 1647.6060 76.4982 822.0337	216.6497
15374 98.8648 179.9300 10.9265 101.8803	

TABLE 5J: CLENBUTEROL Timepoint(s): 6 hrs			Atty. Re	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22697		76.7463	14.9592	408.5599	156.2251
21596		200.000,	192.5967	312.3243	
23631	98.8132	475.8523	20.6543	247.4404	
657	98.8132	630.2727	103.1035	224.5298	
10659	98.7616	384.3923	15.9078	156.3555	
10971	98.7100	110.4397	11.4396	42.1501	15.6427
4479	98.7100	495.3427	80.8484	160.3289	83.4252
2372	98.7100	18.7610	0.4810	43.1912	19.0817
8820	98.7100	139.3167	15.6944	399.3163	123.0551
22317	98.7100	75.9110	17.8196	190.4315	45.8238

TABLE 5K: C Timepoint(s):	lenbuterol-Co	re Tox Markers	Atty. Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15191	100.0000	4848.8693	52.4545	170.8348	500.4770
945	99.9484	134.3437	6.0542		30.0697
20740	99.8452	1340.9600	37.6412	448.7949	136.3810
21147	99.6388	41.2293	0.3146	18.0479	11.2102
23806	99.5356	13.5270	2.1598	60.1184	25.4038
10878	99.4840	1562.5993	0.6741	1634.2253	283.9885
15190	99.3808	3461.6643	487.6477	233.6376	289.1438
15189	99.3808	3694.3787	503.1788	329.6283	310.6204
24716	99.3808	72.2240	15.4827	-7.4551	11.1158
13930	99.3292	413.1923	21.7059	110.7163	65.7014
23368	99.3292	218.4663	5.4029	406.7741	91.9227
2629	99.2776	55.7473	2.8928	21.3916	17.0047
20555	99.2776	11.0847	0.4816	27.9069	10.1556
11113	99.1744	174.2973	52.1552	35.8404	17.9581
23705	99.1744	97.8843	16.9478	265.3709	68.2915
25730	99.1228	399.7273	10.3185	224.2822	72.9452
15032	99.1228	31.6433	0.0984	38.3319	10.0770
1809	99.1228	180.1930	66.3027	26.7980	76.5754
21709	99.0712	543.6700	42.4038	253.3641	57.3564
23715	99.0712	94.8683	16.8393	9.9387	25.1145
20734	99.0196	339.2357	52.4888	94.2550	46.1601
11114	98.9680	362.1807	141.4201	30.5894	32.3749
20735	98.9680	365.3143	51.6737	101.7314	46.4986
2453	98.9164	30.1920	0.5191	53.0373	29.6950
21654	98.8648	572.4030	49.6785	203.9429	73.2109
8829	98.8648	505.2817	40.4494	267.9187	70.0353
20456	98.8132	3.9490	0.1578	22.3578	32.7458
3292	98.8132	223.3543	132.5781	-1.3809	27.7261
20702	98.8132	48.1140	6.8500	149.9956	64.9653
1228	98.7616	134.1093	1.0635	192.5306	40.0635
190	98.7616	64.3393	8.8634	-4.6305	25.2465
1824	98.7100	54.2170	5.5644	112.5691	25.7844
622	98.6584	17.4750	0.5633	45.3087	19.1055
11635	98.6584	69.4783	5.2594	135.5475	28.8584
10248	98.6584	421.4460	3.2657	307.6573	85.3529
6598	98.6584	65.9897	8.8529	23.0423	10.4630
19710	98.6584	89.4057	2.6970	48.5489	23.0344
3910	98.6068	118.1183	0.3407	145.4331	35.4410
17217	98.6068	257.0393	5.0020	405.4736	80.5839
21682	98.5552	184.9510	96.4663	-9.7676	54.3813
355	98.5036	94.2290	12.0303	9.8934	28.6974
16312	98.4520	285.0370	77.1088	67.3643	35.2005
17590	98.4520	90.5147	4.1203	48.3731	16.1590
18695	98.4520	217.4283	76.3852	35.0061	39.0491
733	98.4004	61.5817	0.4070	84.3478	27.7086
12580	98.4004	62.9820	11.9219	19.4747	9.1851
20127	98.2972	93.0660	7.5880	30.6760	20.9299
21115	98.2972	231.9090	10.3353	102.9476	53.5277
13005	98.2972	39.8907	4.6011	18.4472	7.3766
16029	98.2972	81.3597	27.8106	13.8859	19.1912
12978	98.2972	174.3473	30.0006	78.0023	51.9326
356	98.2456	165.1347	24.9797	41.3534	45.3902

TABLE 5K: C		re Tox Markers	Atty. Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
25761	98.2456	27.2957	0.9103	10.3706	13.3401
18597	98.1940	278.9343	56.3348	94.5047	63.0400
14250	98.1940	352.4563	54.8318	145.1721	51.5631
23044	98.1940	475.3620	72.5360	227.0935	
17556	98.1424	447.2547	4.5099	418.5919	
21653	98.0908	271.2960	36.0854	116.2228	40.6966
4512	98.0908	136.4383	56.5763	23.1132	27.3790
16030	98.0908	46.1457	31.5041	-6.3851	16.6583
17532	97.9876	166.7917	5.1276	264.8779	55.6876
20161	97.9360	231.1267	105.1007	36.2762	39.2601
357	97.9360	85.4477	19.1172	25.4313	18.0127
11203	97.9360	94.6200	7.3173	50.3291	16.1130
24019	97.9360	104.0047	17.2367	27.0516	25.4071
20614	97.8844	42.7467	1.2769	17.2406	214.8896
244	97.8844	196.2470	29.2619	63.1635	44.1915
10097	97.8844	71.4007	3.2167	118.9075	22.9977
16249	97.8844	42.3113	4.1646	-4.0842	48.6353
21683	97.8328	271.7527	92.8744	48.5984	33.9935
21657	97.7812	1448.9427	42.7862	954.6483	229.3213
9423	97.7812	477.6037	161.5233	167.2220	78.0601
25567	97.7812	138.8263	11.4355	67.6319	35.7175
1921	97.7812	181.9453	43.7093	81.4987	23.2311
19085	97.7296	103.0713	12.4950	52.2006	14.0771
5384	97.7296	329.6763	123.8702	42.1950	55.7465
16197	97.7296	160.0660	0.8063	161.5913	52.3362
18694	97.7296	85.3757	71.6381	-7.2428	25.7180
6153	97.6780	184.3700	32.7761	622.7538	222.1150
25072	97.6780	25.2017	6.0933	-6.1292	14.8911
17336	97.6780	38.8513	6.0298	15.6028	7.6997
21975	97.6264	509.6623	141.1960	180.4975	77.5763
24674	97.6264	39.2367	0.4022	33.2995	26.8241
1097	97.6264	113.2633	13.0527	303.5668	99.7399
17337	97.6264	274.9593	43.2507	141.9581	42.9696
11483	97.5748	255.8617	50.3113	99.1670	43.7596
15353	97.5748	54.9167	15.7750	19.2374	16.8658
2736	97.5748	211.0247	16.5303	358.5069	62.9998
15640	97.5232	143.6827	1.3775	141.8909	61.0655
804	97.5232	135.3840	26.7548	52.3425	29.2084
17301	97.5232	148.7857	39.6259	502.6110	155.5782
15570	97.5232	193.2387	49.8258	622.6698	207.2827
1295	97.5232	27.4813	7.8249	75.2102	19.2171
15003	97.4716	763.7743	241.5009	94.6028	189.1382
19086	97.4716	157.9933	20.0631	75.1020	28.1408
17658	97.4716	4.3310	3.7428	41.4360	20.5048
15301	97.4200	275.7437	37.4354	100.2767	84.4844
15002	97.3684	872.2577	263.0266	207.7934	185.5842
25090	97.3684	441.3950	92.2155	140.5463	81.4944
9240	97.3684	933.6183	14.9587	1170.9649	183.3070
15192	99.9484	245.0187	6.7325	70.9741	40.1911
18472	99.8968	261.0007	4.7005	67.1399	41.9499
3049	99.8968	1215.6133	12.3725	248.1956	126.6890
15984	99.8452	492.0337	8.2519	247.8687	57.6010
,500 /	00.0402	402.000/	0.2319	241.000/	01.0010

TABLE 5K: (Timepoint(s)		re Tox Markers	Atty: Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15078		83.0913	1.8675	206.5969	127.3381
6988		148.1523	21.8467		
24200	99.7420	1831.3610	51.0588		
6844		-15.2123	3.7916		89.8726
23424		495.8370	8.8821	309.6446	63.2709
13619	99.6388	260.5140	8.2960	135.0774	46.7347
13240	99.5872	384.1850	26.2196	46.0984	41.1069
5943	99.5872	2.5757	7.2305	117.6422	43.8729
14209	99.5872	95.2830	0.6904	186.1088	61.0930
2348	99.5872	235.1720	0.4753	280.7291	97.6111
22765	99.5356	111.5053	3.6676	22.9075	22.6912
11467	99.5356	216.0630	2.1991	139.6584	38.0034
23025	99.4840	-14.1163	0.4311	27.1357	41.4489
23471	99.4840	283.3903	14.5924	77.3412	35.0796
22381	99.4840	175.8840	6.3195	103.3030	23.7487
22081	99.4840	94.4403	6.8233	229.1844	47.7646
4626	99.4324	91.5253	4.1731	27.8457	26.4231
15157	99.4324	39.1553	0.2282	65.6418	20.2172
13353	99.3808	116.6127	5.6815	200.6327	32.2702
9059	99.3808	636.5220	39.1324	271.8312	79.8237
4018	99.3808	27.1503	4.5802	-11.2888	10.8308
22152	99.3292	57.3433	2.7280	-0.2891	20.2076
7315	99.3292	214.7143	34.5163	10.0917	25.3182
15051	99.2776	615.7103	141.6182	119.3141	105.8113
5675	99.2776	1314.5897	174.2619	156.0669	123.3530
2331	99.2260	1230.4933	59.9098	389.0874	358.2674
11873	99.2260	964.7597	160.1007	147.0140	109.6199
13266	99.2260	349.0043	67.6682	94.0862	43.1564
11871	99.2260	3316.3687	720.1954	43.1452	326.8880
3050	99.1744	615.6347	84.2415	87.5598	59.6096
2605	99.1744	36.3433	10.6257	302.2771	139.0916
21740	99.1228	697.6160	38.4674	276.3875	85.5203
6532	99.1228	933.6980	54.8957	449.2898	126.9559
12435	99.1228	116.6823	3.7442	229.7496	48.2511
3619	99.1228	46.3957	0.1635	57.9467	16.1863
23038	99.1228	155.3643	13.0636	20.6635	122.9799
2729	99.0712	193.8313	10.9173	480.0400	152.5689
9796	99.0712	48.0417	4.7084	6.8524	13.4118
5210	99.0712	52.3533	1.8222	96.2220	21.6672
10020	99.0712	290.1433	29.1231	117.2104	99.4120
15892	99.0196	334.6830	40.5811	58.3685	50.3007
6715	99.0196	96.9987	8.6659	42.9113	17.2734
15042	99.0196	147.0083	7.5527	44.1413	36.5945
9083	99.0196	118.1750	6.7094	251.4949	62.4067
16631	99.0196	599.9867	112.2449	64.6549	72.3076
16976	99.0196	630.3390	110.0159	244.6155	67.7554
4797	98.9680	239.9153	2.9022	150.0514	44.9756
8477	98.9164	1373.4903	73.9002	595.5884	183.3453
18473	98.9164	502.5353	39.9997	204.2286	69.6891
24375	98.9164	168.6763	3.3642	109.8936	32.6563
19071	98.9164	175.4793	5.4536	67.1093	38.8081
3207	98.9164	-77.1093	28.2336	241.8528	97.3643
			20.2000	271.0020	JUU43

TABLE 5K: C	lenbuterol-Co	re Tox Markers	Attv. Re	f. 44921-5090-01	-MO/2105485
Timepoint(s):	6 hrs -		. 4.3. 7.0		1
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13634	98.8648	1647.6060	76.4982	822.0337	216,6497
4969	98.8648	206.4873	38.0144		47.1111
15374	98.8648	179.9300	10.9265		26,4536
22697	98.8648	76.7463	14.9592		156.2251
21596	98.8648	886.3967	192.5967	312.3243	85.2827
23631	98.8132	475.8523	20.6543	247,4404	91.2200
657	98.8132	630.2727	103.1035	224.5298	57.1698
10659	98.7616	384.3923	15.9078	156.3555	73.8458
10971	98.7100	110.4397	11.4396	42.1501	15.6427
4479	98.7100	495.3427	80.8484	160.3289	83.4252
2372	98.7100	18.7610	0.4810	43.1912	19.0817
8820	98.7100	139.3167	15.6944	399.3163	123.0551
22317	98.7100	75.9110	17.8196	190.4315	45 8238

	CYCLOPHOS : 6, 48, 192 h		Atty. R	ef. 44921-5090-0	1-WO/2105485
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
10320	89.7810	42.8029	11.5542	80.2271	26.635
25752	89.4281	45.8312	32.3077	-48.6677	50.368
4565	88.9990	22.3941	7.4914	43.5158	14.255
6535	88.9067	326.4850	26.2854	443.6589	71.121
4474	88.1246	83.1301	16.8788	38.9299	27.371
3430	87.9803	166.8932	45.6262	107.2888	
17160	87.2263	2103.6017	246.2741	1700.7727	422.770
25600	86.6528	46.2684	8.1829	70.3570	19.569
25777	86.4964	318.4775	67.4468	233.5822	144.321
4235	86.2998	418.5075	36.8917	323.8966	67.876
20298	86.0632	-209.7280	224.0546	75.5678	98.810
25438	85.7263	36.9592	16.6537	71.6885	22.8019
23215	85.7143	73.2627	9.3638	100.2808	26.845
17130	85.5178	157.2409	27.1432	121.4634	27.8730
17350	85.3092	33.7344	14.9914	70.3727	23.611
16227	85.2691	-8.5485	40.6641	57.0384	38.309
4242	85.2170	354.5961	76.3555	238.4828	64.2738
298	84.9322	39.3249	7.5073	58.9297	23.5384
9538	84.4870	139.5897	45.3819	246.1349	56.4678
25075	84.4229	-55.1296	123.6013	126.3349	124.4803
17501	84.1101	47.8965	10.5383	30.7274	16.7063
21928	84.0058	24.0430	8.7688	40.1568	12.3982
15573	84.0058	85.2547	7.1748	105.6006	18.190
485	83.9416	26.1465	4.0048	30.0318	14.0485
20440	83.8213	15.0142	24.2204	51.5582	18.9648
18819	83.5365	9.6234	18.9771	47.3364	25.9806
4601	83.5085	124.2250	54.2512	64.3827	25.3876
25235	83.4202	21.0332	3.1490	28.7791	9.5164
1816	83.3801	63.6727	11.0712	36.9095	24.3261
21287	83.2478	663.9862	249.7618	437.6605	113.2092
15846	83.1716	28.2028	18.3707	68.2328	33.9342
22434	83.0553	75.1141	22.1786	158.0193	85.7508
21182	83.0392	446.7158	113.3050	273.5515	73.8746
14989	82.9871	1065.5044	242.9779	724.6623	151.5867
1894	82.8828	323.7673	130.9377	148.5104	74.7605
20928	82.8587	4.8148	9.5444	22.6804	14.0144
20864	82.7545	7.0454	5.2635	24.6889	14.9762
1170	82.5580	99.0908	23.3225	74.5513	20.4279
4684	82.4537	90.8723	14.6729	55.9466	21.9963
1879	82.2211	52.2070	12.8776	70.6751	19.1321
24662	82.1810	160.5178	9.0516	177.7223	40.3160
16210	81.9082	344.3033	25.2730	309.6258	80.6548
1709	81.9082	42.6635	6.6617	60.1366	32.4778
21882	81.7639	67.8985	9.4656	96.4214	28.1915
492	81.7478	521.8128	359.0693	200.5845	132.3089
21440	81.6596	69.1262	6.7560	58.8514	29.7861
24597	81.6315	664.7450	113.9138	481.3343	107.1911
4622	81.5673	744.0142	80.0984	594.7047	97.8738
11454	81.5152	295.1553	62.6632	209.1293	63.0907
25737	81.4911	20.6926	7.4353	33.0323	16.0955
16955	81.3829	917.9139	347.0575	528.0292	172.1319

	CYCLOPHOS		Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID	): 6, 48; 192 h LDA Score	irs Mean Tox	SD Tox	Mean Nontox	SD Nontox
20554	81.3468	30.1092	19.3862		
9905			32.2360	75.9650 42.2181	36.7275
18468	81.2665	57.1878	30.4622		22.7696
				95.0510	27.8996
4362 17561	81.0981	31.5221	34.1067	35.6249	
	81.0219	181.7411	42.6801	286.7749	138.0625
25369 20450	81.0219	18.4957	4.2567	26.8936	11.1197
	80.9818	46.5020	15.8107	72.8100	22.3093
16241 919	80.9818 80.9176	29.5792 -8.1594	3.7244	39.2193	9.5723
22583	80.8254	-6.1594 17.6804	16.5029	28.3589	38.3582
22363			3.1824	23.9761	5.7883
20225	80.8254	55.7341	11.1492	79.2127	22.5790
<u> </u>	80.7732 80.7331	32.5332	10.4836	96.7807	57.4815
1108		16.5236	7.6479	33.0522	11.9111
14980	80.7211	30.2779	12.3506	13.1152	14.7570
1005	80.7211	48.6211	8.6610	32.9766	20.1841
23058	80.6569	216.2758	48.4577	282.9896	72.7094
619	80.5126	28.8201	3.2076	36.6183	8.6739
381	80.4083	17.2289	7.4306	29.1982	10.6731
20779	80.3160	165.3218	17.5305	124.0075	27.8463
15485	80.2759	30.7244	11.8598	14.1573	10.2435
1948	80.2639	135.8238	30.4102	82.4756	
21069	80.2519	35.4449	5.3390	49.5922	14.2142
17502	80.2238	285.0915	63.2148	193.0939	56.4031
20998	80.1315	524.4325	181.7060	279.3474	80.8708
20536	80.1195	38.3231	31.6941	11.8192	22.3703
17972	80.1075	27.8115	11.5342	42.8828	11.8088
18895	80.0032	114.9495	22.6815	163.3734	34.7994
19949	79.9751	131.3377	28.7340	82.5089	20.9379
17086	79.9390	157.1793	28.2946	209.2537	48.6931
20246	79.9230	4.4057	29.0201	46.5865	21.6320
912	79.8709	514.3985	115.6418	380.2598	63.1228
17174	79.8187	88.9931	34.3390	44.8814	24.0878
25496	79.7425	201.9165	22.2101	157.5616	37.4827
22150	79.6503	224.3901	48.0786	151.1148	44.5119
25659	79.6142	38.9102	12.7519	90.1269	61.2185
20021	79.5981	21.5031	62.2867	-68.4464	58.7235
4412			57.5353	391.7156	
20980		34.7882	6.1143	49.3264	15.3112
18032		44.1663	19.4651	88.9932	44.5654
15142	79.4417	29.8871	10.2390	14.9828	
18655	79.4016	48.4742	105.6019	156.9252	61.1346
8269		15.1508	3.8355	21.8943	9.4989
15408	79.3014	201.3526	31.1048	267.5795	
18226	79.2733	347.2062	41.3967	285.8516	55.2318
25705	79.2452	529.9615	172.6778	359.4869	116.2552
1581	79.2211	370.1620	43.9235	296.6924	61.2129
18098	79.1570		10.6774	58.5767	15.2037
23698	79.1570		4.4851	36.6734	
19928		925.7691	133.5806	455.9207	201.3601
13802	90.0417	82.1183	15.6432	139.6725	38.6296
2782	89.6767		18.5820	55.6441	44.4733
11563	89.2717	223.4953	52.2880	116.1155	54.8260

GC ID	: 6, 48, 192 h			, ,	1-WO/210548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23545	88.9067	5945.0338			
5553	88.6861	24.6978			
5969	87.8118				
461	87.4870	59.9835		99.8830	
7715	87.3827	19.2980		33.8221	11.9180
9286	87.3306	222.8223		310.6062	67.9793
22771	87.2904	559.0163	58.8088	385.8688	93.0129
2559	87.1220	284.6615	53.9835	411.3248	89.1976
19283	87.0699	265.8252	85.8404	429.5856	125.7037
15786	86.8733	156.4094	30.5506	89.4438	41.8035
19093	86.2878	83.5065	38.2466	188.3403	83.9028
5378	86.1835	320.8532	19.9846	373.9869	86.1896
12805	86.0792	77.2402	22.4623	11.6043	53.3344
7970	85.9349	104.6198	20.6103	152.3275	31.0565
4151	85.9228	391.9504	84.6875	603.8739	163.2447
11368	85.7383	60.7732	29.7627	12.0356	24.9961
23840	85.6862	89.0182	59.5736	-30.0771	58.9398
17261	85.6220	766.4824	84.1296	575.6093	138.9607
17796	85.5057	76.7958	16.8909	147.3081	60.3874
3094	85.4135	39.5858	11.4552	87.0693	51.0256
18854	85.2972	164.8416	20.7067	191.7377	51.6309
19145	85.2691	475.8288	65.8220	361.1610	60.9836
13511	85.1528	210.4325	25.4688	155.3516	35.9170
2211	85.0485	-13.4862	33.9645	51.7761	39.4487
5111	84.9844	240.8116	43.9451	365.5485	128.5405
11337	84.8801	41.2845	12.0828	65.7655	19.9522
17089	84.8400	1402.3132	189.5788	1086.3912	401.2285
16543	84.7999	53.5725	22.0423	97.1162	25.0521
5740	84.7237	44.1492	12.5690	74.0108	26.5389
23337	84.7076	508.7272	176.7436	279.0357	100.2738
3191	84.6836	229.4547	29.9839	161.5617	44.6216
23464	84.6435	259.7548	64.2746	161.8276	51.8224
1182	84.6314	69.0456	16.7101	107.3778	26.4151
9876	84.2665	41.0540	22.0838	93.3784	36.4615
12804	84.2143	29.3941	16.9388	62.1187	24.9069
17355	84.1622	539.2781	108.7013	762.9939	169.7132
4873	83.9256	727.1948	252.9898	441.5460	110.5566
17492	83.8895	532.6638	131.2774	802.8211	236.1699
15084	83.7571	67.0725	57.5538	197.8258	77.3188
22438	83.7451	-10.9127	12.3748	23.1043	29.0729
4626	83.6007	70.5967	26.6423	27.4654	26.1604
14337	83.5365	236.3598	30.3950	307.7315	50.7455
8627	83.4323	19.7490	10.6688	39.2932	14.3428
4975	83.3280	66.2334	15.4385	105.7459	29.5074
6458	83.2758	13.9457	5.6771	34.2500	21.6628
18337	83.2758	423.4050	86.0876	592.1076	120.7567
11268	83.2117	103.1452	22.8648	146.3976	40.9740
15904	83.1716	297.8010	53.1909	427.0825	92.9293
	83.1595	113.0401	27.8182	171.0561	61.5415
22911			~,.0102	11 1.000 []	01.04101
7044		1676.3148	416 2070	1203 0005	
	83.1435 83.0793	1676.3148 14.5687	416.2079 17.0282	1293.0095 35.4199	246.6518 15.6659

TABLE 5L: CYCLOPHOSPHAMIDE Timepoint(s): 6, 48, 192 hrs			Atty. R	Atty. Ref. 44921-5090-01-WO/2105			
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
7961	00.0102		13.8782				
18680	83.0152	117.5713	17.4993				
18610	82.9630	469.9288		14 115000	00.77		
15924	82.9229	40.8472	37.0034				
6658	82.9109	93.6829			01.0200		
4917	82.9109		15.2375		36.2076		

ABLE 5M:	Cyclophosp	hamide	Atty.	Ref. No. 44921-509	0-01-WO/210548
Core Tox Ma	агкеrs ): 6, 48, 192	hro		7. p. 18"	. *
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10320	89.7810				
25752	89.4281			-48.6677	
4565	88.9990			43.5158	
6535	88.9067			443.6589	
4474	88.1246	83.1301	16.8788	38.9299	71.121 27.371
3430	87.9803	166.8932	45.6262	107.2888	
17160	87.2263	2103.6017	246.2741	1700.7727	422.770
25600	86.6528	46.2684	8.1829	70.3570	19.569
25777	86.4964	318.4775	67.4468	233.5822	144.321
4235	86.2998	418.5075	36.8917	323.8966	67.876
20298	86.0632	-209.7280	224.0546	75.5678	98.810
25438	85.7263	36.9592	16.6537	71.6885	22.801
23215	85.7143	73.2627	9.3638	100.2808	26.845
17130	85.5178	157.2409	27.1432	121.4634	27.873
24228	85.4897	327.6269	131.5678	158.3839	46.245
17350	85.3092	33.7344	14.9914	70.3727	23.611
16227	85.2691	-8.5485	40.6641	57.0384	38.309
4242	85.2170	354.5961	76.3555	238.4828	64.273
298	84.9322	39.3249	7.5073	58.9297	
22423	84.4991	191.4260	97.7415	85.1822	23.538
9538	84.4870	139.5897	45.3819	246.1349	50.768
25075	84.4229	-55.1296	123.6013	126.3349	56.467
17501	84.1101	47.8965	10.5383	30.7274	124.480
21928	84.0058	24.0430	8.7688	40.1568	16.706
15573	84.0058	85.2547	7.1748	105.6006	12.398
485	83.9416	26.1465	4.0048	30.0318	18.190
20440	83.8213	15.0142	24.2204	51.5582	14.048
18819	83.5365	9.6234	18.9771	47.3364	18.964
4601	83.5085	124.2250	54.2512	64.3827	25.980
25235	83.4202	21.0332	3.1490	28.7791	25.387
1816	83.3801	63.6727	11.0712	36.9095	9.516
21287	83.2478	663.9862	249.7618	437.6605	24.326
15846	83.1716	28.2028	18.3707		113.2092
22434	83.0553	75.1141	22.1786	68.2328	33.9342
21182	83.0392	446.7158	113.3050	158.0193	85.7508
14989	82.9871	1065.5044	242.9779	273.5515	73.874
1894	82.8828	323.7673	130.9377	724.6623	151.5867
20928	82.8587	4.8148	9.5444	148.5104	74.760
20864	82.7545	7.0454	5.2635	22.6804	14.014
1170	82.5580	99.0908		24.6889	14.9762
4684	82.4537	90.8723	23.3225	74.5513	20.4279
1879	82.2211	52.2070	14.6729	55.9466	21.9963
24662	82.1810		12.8776	70.6751	19.1321
16210	81.9082	160.5178	9.0516	177.7223	40.3160
1709	81.9082	344.3033	25.2730	309.6258	80.6548
21882	81.7639	42.6635	6.6617	60.1366	32.4778
492	81.7478	67.8985	9.4656	96.4214	28.1915
21440	81.6596	521.8128	359.0693	200.5845	132.3089
24597	81.6315	69.1262	6.7560	58.8514	29.7861
4622	81.5673	664.7450	113.9138	481.3343	107.1911
11454	81.5152	744.0142	80.0984	594.7047	97.8738
1 1404	01.5152	295.1553	62.6632	209.1293	63.090

•	Cyclophosp	hamide	Atty.	Ref. No. 44921-509	0-01-WO/210548
Core Tox Ma				<b>,</b> .	iv
imepoint(s GLGC ID	): 6, 48, 192 LDA Score		OR TOTAL		
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
25737	81.4911		7.4353	33.0323	
16955	81.3829			528.0292	
25495	81.3588		16.6020	140.4145	<del></del>
20554	81.3468	30.1092	19.3862	75.9650	36.727
9905	81.2665	3.2448		42.2181	22.769
18468	81.2665	57.1878	30.4622	95.0510	27.899
4362	81.0981	31.5221	34.1067	35.6249	20.782
17561	81.0219	181.7411	42.6801	286.7749	138.062
25369	81.0219		4.2567	26.8936	11.1197
20450	80.9818	46.5020	15.8107	72.8100	22.3093
16241	80.9818	29.5792	3.7244	39.2193	9.5723
919	80.9176	-8.1594	16.5029	28.3589	38.3582
22583	80.8254	17.6804	3.1824	23.9761	5.7883
200	80.8254	55.7341	11.1492	79.2127	22.5790
20225	80.7732	32.5332	10.4836	96.7807	57.4815
1108	80.7331	16.5236	7.6479	33.0522	11.9111
14980	80.7211	30.2779	12.3506	13.1152	14.7570
1005	80.7211	48.6211	8.6610	32.9766	20.1841
25676	80.6810	75.3428	70.7945	167.8154	66.1244
23058	80.6569	216.2758	48.4577	282.9896	72.7094
619	80.5126	28.8201	3.2076	36.6183	8.6739
381	80.4083	17.2289	7.4306	29.1982	10.6731
20779	80.3160	165.3218	17.5305	124.0075	27.8463
15485	80.2759	30.7244	11.8598	14.1573	10.2435
1948	80.2639	135.8238	30.4102	82.4756	43.2075
21069	80.2519	35.4449	5.3390	49.5922	14.2142
17502	80.2238	285.0915	63.2148	193.0939	56.4031
15174	80.1837	257.3659	99.4323	167.1174	50.4460
20998	80.1315	524.4325	181.7060	279.3474	80.8708
20536	80.1195	38.3231	31.6941	11.8192	22.3703
17972	80.1075	27.8115	11.5342	42.8828	11.8088
18895	80.0032	114.9495	22.6815	163.3734	34.7994
19949	79.9751	131.3377	28.7340	82.5089	20.9379
17086	79.9390	157.1793	28.2946	209.2537	48.6931
20246	79.9230	4.4057	29.0201	46.5865	21.6320
21657	79.8709	1487.1038	441.9326	948.9767	218.1292
912	79.8709	514.3985	115.6418	380.2598	63.1228
17174	79.8187	88.9931	34.3390	44.8814	24.0878
25496	79.7425	201.9165	22.2101	157.5616	37.4827
22150	79.6503	224.3901	48.0786	151.1148	44.5119
25659	79.6142	38.9102	12.7519	90.1269	61.2185
20021	79.5981	21.5031	62.2867	-68.4464	58.7235
4412	79.5861	505.8172	57.5353	391.7156	81.3105
20980	79.5741	34.7882	6.1143	49.3264	15.3112
18032	79.5219	44.1663	19.4651	88.9932	44.5654
15142	79.4417	29.8871	10.2390	14.9828	11.7599
18655	79.4016	48.4742	105.6019	156.9252	61.1346
8269	79.3134	15.1508	3.8355	21.8943	9.4989
15408	79.3014	201.3526	31.1048	267.5795	79.7365
19928	95.5162	925.7691	133.5806	455.9207	201.3601
13802	30.5102	020.1031	15.6432	400.8207	201.3001

TABLE 5M: Core Tox Ma	Cyclophosp		· Atty.	Ref. No. 44921-509	0-01-WO/2105485
	arkers ): 6, 48, 192	· ·			
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2782	89,6767	90.1382	18.5820	55.6441	44.4733
11563	89.2717	223.4953	52.2880	116.1155	
23545	88.9067	5945.0338		3900.7723	
5553	88.6861	24.6978		86.3451	83.0760
5969	87.8118	600.5945			
461	87.4870	59.9835		99.8830	
7715	87.3827	19.2980		33.8221	11.9180
9286	87.3306	222.8223	32.2374	310.6062	67.979
22771	87.2904	559.0163		385.8688	
2559	87.1220	284.6615		411.3248	89.197
19283	87.0699	265.8252	85.8404	429.5856	
15786	86.8733	156.4094		89.4438	
19093	86.2878	83.5065			
5378	86.1835	320.8532			
12805	86.0792	77.2402		11.6043	
7970	85.9349	L			
4151	85.9228			603.8739	
11368	85.7383	60.7732		12.0356	
23840	85.6862	89.0182		-30.0771	58.939
17261	85.6220	766.4824		l	
17796	85.5057	76.7958			60.3874
3094	85.4135			87.0693	
18854	85.2972			191.7377	
19145	85.2691	475.8288		361.1610	
13511	85.1528			155.3516	
2211	85.0485	-13.4862		51.7761	39.448
5111	84.9844	240.8116		365.5485	
11337	84.8801	41.2845		65.7655	
17089	84.8400			1086.3912	401.228
16543	84.7999	53.5725		97.1162	
5740	84.7237	44.1492		74.0108	
23337	84.7076			<u> </u>	100.273
3191			29.9839	1	
	84.6836				
23464 1182	84.6435				
	84.6314			l	
9876					
12804	84.2143				
17355	84.1622				
4873	83.9256				
17492	83.8895	<u> </u>	<del> </del>		236.169
15084	83.7571	67.0725			
22438	83.7451	-10.9127			
4626					
14337	83.5365				
19257	83.5085				
8627	83.4323				
4975	83.3280				
6458					
18337	83.2758				<del></del>
11268			<del></del>		
15904	83.1716	297.8010	53.1909	427.0825	92.929

TABLE 5M: Cyclophosphamide Atty. Ref. No. 44921-5090-01-WO/21					0-01-WO/2105485
Core Tox Markers					
	i): 6, 48, 192		,	7	
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22911	83.1595	113.0401	27.8182	171.0561	61.5415
7044	83.1435	1676.3148	416.2079	1293.0095	246.6518
3319	83.0793	14.5687	17.0282	35.4199	15.6659
12356	83.0152	57.0170	13.5032	99.2891	36.0694
7961	83.0152	21.9158	13.8782	46.4652	17.6986
18680	83.0152	117.5713	17.4993	164.6098	39.7749
18610	82.9630	469.9288	62.6292	375.7056	74.7646
15924	82.9229	40.8472	37.0034	98.2426	37.6253
6658	82.9109	93.6829	22.9474	134.7486	31.5014
4917	82.9109	14.4837	15.2375	61.1111	36.2076

	: EPINEPHR	INE	Atty. Re	f. 44921-5090-01	-WO/2105485
	(s): 24 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
				6.1908	
21666	99.2776 99.1744	26.5160 1189.0270		41.0596	
23651					
7486	99.1744	38.6977		87.5030	
18128	99.1228	97.7840		136,4916	
16049	98.8132	62.2973		88.2642	88.2297
16416		84.5417	18.0022	38,6044	12.6402
12422	98.6068	128.8727	4.6111	79,9457	18.8585
25450	98.5552	71.5753		100.0363 148.0740	33.8216 85.6816
20589	98.5036	705.7920			43.2849
24869	98.5036	89.4850			
17570	98.4004	219.0427		209.9197	61.7961
14970	98.3488	36.4547	1.8231	80.6479	
11843	98.2456	125.3780			
243	98.0908	792.8837	10.8311	621.4805	
20913		106.9910		152.4929	
14034	97.8844	80.2733			
25249	97.8844	81.8490		101.0746	
15913	97.7812	137.9433		32.5121	22.2242
16925		642.3187	46.1746		
23219	<del></del>	0.1467		21.5528	
20318		14.1007	0.2911	21.6317	7.7240
15629	1				30.0527
23488		34.2253			13.0247
16844	97.5748			2828.8884	913.5317
18883		163.1527	30.6395	68.5704	26.7822
18881	97.5232	45.3147	6.3140		
11114		59.7723			37.7707
15003		785.0383			
15503		215.3473		143.6030	
18108	<del></del>	250.3110		157.8583	
15002		937.6463			
17530	·	153.7763			1
2413				625.9727	104.5680
1375					
786					ļ
13974				538.4064	
15135	<del></del>	<del></del>			
16215		<del></del>			
2109			<del></del>		
24533					
16654			<del></del>		
13646		<del></del>			
15829				<del> </del>	
25629	<del></del>		<del></del>		
1523	<del></del>	<del></del>	<del></del>		
15682	<del></del>	<del></del>	<del></del>		
24868					
20127					
13369					
22940		<del></del>			
503		<del></del>			
23781	97.0072	91.4017	25.3615	39.5741	16.7864

		INE	Atty. Re	f. 44921-5090-01	-WO/2105485
	(s): 24 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22321	96.9556	507.3317			95.6395
15446	96.9556	404.0587	6.9877	304.1873	73.1145
17215	96.9040	83.5970		168.0604	43.6118
18798	96.8524	107.5180	1.3541	138.4193	28.2947
18572	96.8524	908.0947	3.9575	1003.6540	145.8404
21975	96.8524	257.9910	7.7455	181.2767	79.8482
20032	96.8008	17.5237	1.7078	43.4604	15.2240
25899	96.7492	15.5163	0.2316	20.5485	7.1895
23731	96.7492	263.6543	18.5718	159.9061	45.0677
619	96.7492	22.4083	1.7778	36.5577	8.6468
20770	96.6976	156.8697	23.4808	56.2296	41.2374
1801	96.6976	120.4320	15.6344	76.8255	18.7138
24536	96.6976	1355.7977	41.0844	998.6555	188.8572
10015	96.6460	420.5977	68.7205	217.8729	63.7868
25359	96.5944	33.1293	0.4272	43.7954	14.7516
15253	96.5944	237.1250		108.3637	47.0250
11849	96.5944	1458.8320	107.8285	940.8786	195.5401
12400	96.5428	48.3297	12.2020	24.2917	8.7001
16552	96.4912	92.8863	24.4873	38.9750	18.7740
18357	96.4912	323.6223	3.3133	319.9372	82.7828
15513	96.4912	166.9317	2.7130	189.9391	42.3197
18054	96.4396	83.6250	2.1335	126.2777	31.6272
7050	96.4396	67.4593		60.3158	24.3089
22675	96.3880	87.7107		30.8168	20.8898
24814	96.3880	125.6697	30.0655	71.9543	16.4597
20518	96.3364	175.7517	3.1089	226.4270	41.2545
13151	96.3364	3338.0793	190.6440	2187.6161	569.2195
25816	96.2848	17.6030	0.4452	25.6224	8.5933
22555	96.2332	29.4340	3.0467	12.0415	8.1039
5622	96.2332	406.5067	100.2078	206.3462	60.9271
16218	96.2332	1127.6243	21.3959	845.7607	365.8797
22552	96.1816	715.1360	22.1595	452.2379	173.4372
4327	96.1816	157.7943	47.5454	91.5411	27.7979
6100	96.1816	3273.6163	299.3398	2108.3253	503.6042
11454	96.1816	286.6350	5.8844	210.0435	63.7797
25529	96.1300	38.6000	0.7893	38.3339	74.3495
2853	96.0784	150.4390	47.4404	80.3220	24.7315
343	96.0784	58.3073	4.3074	53.2117	43.8789
1478	96.0268	23.1500	0.6358	37.8936	24.9431
18148	96.0268	59.9527	2.7085	98.7423	29.3865
487	95.9752	28.8640	0.7488	41.7508	11.9850
1540	95.9752	50.0800		16.6814	13.4567
492	95.9236		2.8412	205.1486	142.3625
25547	95.9236			356.1624	129.2161
12118	95.9236	1192.9273		544.6224	298.7975
15185	95.9236				186.7858
1168	95.9236				6.6213
19661	95.8720	6.7690	1.0521		15.5908
3527	99.8452	12.9287	0.0487	24.7505	21.0113
3931	99.4324				30.5123
7036	99.2776		0.1155	113.8784	21.4829
12324	99.1228	35.7033	6.6789	-35.6344	38.6620

4	: EPINEPHE	RINE	Atty. Re	f. 44921-5090-01	I-WO/2105485
	(s): 24 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13717	99.0712	74.7137	0.9743	112.0620	<u> </u>
21509	98.9164	787.7937	27.5886		1
24135	98.9164	380.8940	1.7808		1
11644	98.8648	510.5817	20.1340		1
22026	98.8132	3518.2023	8.7712	3305.1771	1100.9499
11166	98.7616	228.4097	13.3451	124.5399	
3211	98.7100	136.1203	47.1696	6.0020	<del></del>
4049	98.6584	757.4380	272.8084	42.0070	
4048	98.6584	331.6660	154.6004	18.3030	
24270	98.5552	238.9863	2.3146	170.0291	58.4029
22592	98.5552	836.2727	287.0068	201.6477	133.2668
23326	98.5036	111.8597	0.4384	126.6552	27.4519
1506	98.4520	336.9553	11.6236	239.0523	37.0479
3165	98.4004	33.5920	0.3715	30,7942	25.0551
17106	98.2972	49.6850	0.6158	75.5109	26.2033
23435	98.2972	27.0300	1.9148	-34.1479	49.1359
13929	98.2456	331.9700	89.3004	110.4635	47.9681
10970	98.2456	42.4007	1.1561	84.6732	32.6599
21771	98.2456	1064.0957	7.2340	920.3425	230.4271
16062	98.2456	1259.5520	34.4070	841.6006	186.6852
4207	98.2456	291.3373	74.6083	122.4612	41.6400
23511	98.1940	124.6603	2.0103	76.6181	30.8712
13915	98.1424	61.3407	0.3722	68.1771	16.9576
3832	98.1424	57.6423	0.5583	78.0201	35.2295
13702	97.9876	24.4990	0.7311	49.7110	21.5412
894	97.9876	409.7137	21.2847	213.4587	79.8531
4969	97.9360	113.4747	56.9545	-18.6405	48.1540
2765	97.8844	165.9460	2.0674	115,4260	33.7180
5228	97.8844	172.1703	63.8689	17.5026	45.0830
18581	97.8844	309.6860	8.9991	224.5213	58.7700
2125	97.8328	458.4750	239.1954	110.1359	89.7111
5760	97.8328	166.8853	2.3547	125.9282	28.0269
10310	97.8328	468.2403	34.3944	773.8072	151.8248
8347	97.8328	125.8373	71.4582	33.1032	24.2624
16971	97.7296	604.9870	2.2495	625.9080	110.1953
10096	97.7296	45.2850	0.7088	67.9757	27.8152
4490	97.7296	350.7433	99.1027	71.4423	77.3708
15004	97.6780	1513.7483	676.9818	333.7069	264.8772
11634	97.6780	63.2070	1.0015	104.1398	33.6241
6606	97.6780	4957.6607	591.8675	1868.8558	759.0889
14945	97.6780	201.9357	4.8148	312.2025	284.6709
19396	97.6780	77.0060	0.5804	64.5836	22.0189
9808	97.6264	21.9317	0.2473	28.2164	12.7466
9546	97.6264	248.0543	3.4682	348.8435	71.5539
21252	97.6264	21.4473	0.3102	27.0436	17.6819
8058	97.6264	502.7917	51.4777	316.4540	55.8216
4945	97.6264	48.4333	2.8325	114.2217	62.8329
24089	97.6264	383.9677	11.7182	215.7464	102.1879
2531	97.5748	232.7287	19.4053	128.3824	43.7997
4475	97.5232	121.5643	1.2526	98.1603	24.6261
6098	97.5232	62.4710	5.0207	104.3365	21.8370
24040	97.5232	858.5613	317.0292	373.3416	133.6995

TABLE 5N: EPINEPHRINE Timepoint(s): 24 hrs			Atty. Re	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21166	97.5232	678.6667	202.1629	312.2661	87.1282
1901	97.4716	51.5103	3.4812	72.1035	66.0043
11995	97.4716	58.4227	0.5425	67.8725	29.5639
18198	97.4200	223.5667	0.9721	230.7480	62.4391
9218	97.4200	47.6807	0.8715	71.3801	31.9428
23097	97.4200	133.0247	18.6534	70.5065	23.7675
10053	97.4200	49.2487	0.7590	66.8934	38.0980
18848	97.3684	16.4617	0.3413	27.1611	11.3058
10028	97.3684	205.4137	3.2177	278.2003	56.9774
21796	97.3684	623.4527	184.6330	267.9207	90.6188

CLGC ID	Timepoint(s): 2		e Tox Markers	Atty.	Ref. 44921-5090	-01-WO/2105485
23651   99.1744   1189.0270   603.8436   41.0596   145.07     7486   99.1744   38.6977   0.5324   87.5030   51.18     18128   99.1228   97.7840   0.8931   136.4916   26.02     18049   98.8132   62.2973   0.9762   88.2642   88.22     16416   99.7100   84.5417   18.0022   38.6044   12.64     12422   98.6068   128.8727   4.6111   79.9457   18.55     25450   98.5552   71.5753   0.5908   100.0363   33.82     20589   99.5036   705.7920   156.4907   148.0740   85.68     24869   98.5036   89.4850   1.5779   155.9979   43.28     17570   98.4004   219.0427   0.6782   209.9197   61.79     14970   99.3488   36.4547   1.8231   80.6479   20.56     11843   98.2456   125.3780   14.4234   73.8668   16.24     243   96.0908   792.8837   10.8311   621.4805   114.42     20913   97.8844   106.9910   1.1868   152.4929   40.56     14034   97.8844   80.2733   0.2588   84.1934   19.29     25249   97.8844   81.8490   0.6821   101.0746   26.29     15913   97.7812   137.9433   40.1589   32.5121   22.22     16925   97.7812   0.1467   1.3517   21.5528   23.50     20318   97.6780   14.1007   0.2911   21.6317   7.72     15829   97.6780   44.0570   0.9964   60.2613   30.05     23488   97.6264   34.2253   0.4176   42.8957   13.02     18881   97.5232   45.3147   6.3140   18.6079   8.404     18883   97.5748   2836.0520   13.2871   2828.8884   913.55     18883   97.5748   2836.0520   13.2871   2828.8884   913.55     15003   97.4200   765.0383   382.0336   94.5369   188.42     15003   97.4200   25.53110   33.9669   157.8583   23.86     15003   97.4200   25.53110   33.9669   157.8583   23.86     15003   97.3684   97.6433   34.0460   31.8745   34.60     18108   97.4200   25.53110   33.9669   157.8583   23.86     15003   97.3684   97.6163   10.05317   17.757   53.84064   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.540   14.54			Mean Tox	SD Tox	Mean Nontox	SD Nontox
7486         99.1744         38.6977         0.5324         87.5030         51.18           18128         99.1228         97.7840         0.8931         136.4916         26.02           16049         98.8132         62.2973         0.9762         88.2642         88.22           16416         98.7100         84.5417         18.0022         38.6044         12.64           12422         98.6068         128.8727         4.6111         79.9457         18.85           25450         98.5552         71.5753         0.5908         100.0363         33.82           20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.55           11843         98.2456         125.3780         14.4234         73.8668         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844	21666	99.2776	26.5160	0.5537	6.1908	11.8188
18128         99.1228         97.7840         0.8931         136.4916         26.02           16049         98.8132         62.2973         0.9762         88.2642         88.22           16416         98.7100         84.5417         18.0022         38.6044         12.64           12422         98.6068         128.8727         4.6111         79.9457         18.85           25450         98.5056         705.7920         156.4907         148.0740         85.68           24869         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6762         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.492         40.56           14034         97.8844	23651	99.1744	1189.0270	603.8436	41.0596	145.0774
16049	7486	99.1744	38.6977	0.5324	87.5030	51.1809
16416         98.7100         84.5417         18.0022         38.6044         12.64           12422         98.6068         128.8727         4.6111         79.9457         18.85           25450         98.5556         71.5753         0.5908         100.0363         33.82           20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2466         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         80.2733         0.2583         84.1934         19.29           15913         97.7812	18128	99.1228	97.7840	0.8931	136.4916	26.0286
12422         98.6068         128.8727         4.6111         79.9457         18.85           25450         98.5552         71.5753         0.5908         100.0363         33.82           20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9799         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           23318         97.6780	16049	98.8132	62.2973	0.9762	88.2642	88.2297
25450         98.5552         71.5753         0.5908         100.0363         33.82           20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         0.1467         1.5517         21.5528         23.50           20318         97.6780	16416	98.7100	84.5417	18.0022	38.6044	12.6402
25450         98.5552         71.5753         0.5908         100.0363         33.82           20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780	12422	98.6068	128.8727	4.6111	79.9457	18.8585
20589         98.5036         705.7920         156.4907         148.0740         85.68           24869         98.5036         89.4850         1.5779         155.9979         43.28           17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780		98.5552	71.5753	0.5908	100.0363	33.8216
17570         98.4004         219.0427         0.6782         209.9197         61.79           14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.007         0.2914         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748		98.5036	705.7920	156.4907	148.0740	85.6816
14970         98.3488         36.4547         1.8231         80.6479         20.56           11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         80.2733         0.2583         84.1934         19.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.52           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748	24869	98.5036	89.4850	1.5779	155.9979	43.2849
11843         98.2456         125.3780         14.4234         73.8868         16.24           243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18803         97.5232	17570	98.4004	219.0427	0.6782	209.9197	61.7961
243         98.0908         792.8837         10.8311         621.4805         114.42           20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232	14970	98.3488	36.4547	1.8231	80.6479	20.5629
20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           1803         97.5232	11843	98.2456	125.3780	14.4234	73.8868	16.2415
20913         97.8844         106.9910         1.1868         152.4929         40.56           14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.427         258.3548         1211.4688         391.71           1803         97.5232		98.0908	792.8837	10.8311	621.4805	114.4201
14034         97.8844         80.2733         0.2583         84.1934         19.29           25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232			106.9910	1.1868	152.4929	40.5650
25249         97.8844         81.8490         0.6821         101.0746         26.29           15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           18881         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200		97.8844	80.2733	0.2583	84.1934	19.2986
15913         97.7812         137.9433         40.1589         32.5121         22.22           16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200						26.2928
16925         97.7812         642.3187         46.1746         975.4178         177.57           23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         45.3147         6.3140         18.6079         8.04           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         2.5247         4.4773         45.8836         22.76           15503         97.4200				40.1589	32.5121	22.2242
23219         97.7812         0.1467         1.3517         21.5528         23.50           20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8336         22.76           15503         97.3684         93.76463         311.9264         207.5909         184.66           17530         97.3684						177.5760
20318         97.6780         14.1007         0.2911         21.6317         7.72           15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8636         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684						23.5072
15629         97.6780         44.0570         0.9964         60.2613         30.05           23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684						7.7240
23488         97.6264         34.2253         0.4176         42.8957         13.02           16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.65           2413         97.3684						30.0527
16844         97.5748         2836.0520         13.2871         2828.8884         913.53           18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.65           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.36						13.0247
18883         97.5748         163.1527         30.6395         68.5704         26.78           1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.65           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684						913.5317
1892         97.5232         2524.4427         258.3548         1211.4688         391.71           18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168						
18881         97.5232         45.3147         6.3140         18.6079         8.04           11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168						
11114         97.5232         59.7723         5.9778         31.5257         37.77           15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
15003         97.4200         785.0383         382.0336         94.5369         188.42           385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.31					1	37.7707
385         97.4200         -2.5247         4.4773         45.8836         22.76           15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.94           24533         97.2						188.4213
15503         97.4200         215.3473         5.8073         143.6030         39.61           18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.94           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
18108         97.4200         250.3110         33.9669         157.8583         23.86           15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.				<del></del>		
15002         97.3684         937.6463         311.9264         207.5909         184.66           17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89				·		
17530         97.3684         153.7763         8.8256         95.0549         23.69           2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89						
2413         97.3684         737.1813         3.4232         625.9727         104.56           1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89						
1375         97.3684         87.1750         0.8159         105.0913         34.03           786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89						
786         97.3684         20.8183         0.4460         31.8745         11.59           13974         97.3168         1001.5317         187.6777         538.4064         143.48           15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89				<u> </u>	<del></del>	
13974     97.3168     1001.5317     187.6777     538.4064     143.48       15135     97.3168     1805.3227     222.7124     994.6434     216.55       16215     97.3168     381.4167     68.5701     212.8355     44.10       2109     97.3168     1133.9577     65.7596     757.7591     158.91       24533     97.2652     121.7623     23.9496     272.2374     84.42       16654     97.2136     22.0607     9.5395     6.3900     7.76       13646     97.1620     1122.2877     163.9331     577.3346     154.89						
15135         97.3168         1805.3227         222.7124         994.6434         216.55           16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89						
16215         97.3168         381.4167         68.5701         212.8355         44.10           2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89						
2109         97.3168         1133.9577         65.7596         757.7591         158.91           24533         97.2652         121.7623         23.9496         272.2374         84.42           16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89			<del></del>	<del></del>		
24533     97.2652     121.7623     23.9496     272.2374     84.42       16654     97.2136     22.0607     9.5395     6.3900     7.76       13646     97.1620     1122.2877     163.9331     577.3346     154.89						
16654         97.2136         22.0607         9.5395         6.3900         7.76           13646         97.1620         1122.2877         163.9331         577.3346         154.89			<del></del>			
13646 97.1620 1122.2877 163.9331 577.3346 154.89						
. (8879) W.C.IIII 11780) 0798/ 51198/ 51198/ 7317	15829					
10020						
20020						- <del> </del>
						<del></del>
		<del></del>				

Timepoint(s): 2	FABLE 50: Epinephrine-Core Tox Markers Fimepoint(s): 24 hrs			•		
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
503	97.0072	46.9083	0.9373	63.6186	17.8034	
23781	97.0072	91.4017	25.3615	39.5741	16.7864	
22321	96.9556	507.3317	93.8041	173.3048	95.6395	
17734	96.9556	2502.4650	847.6621	1047.1352	499.3653	
15446	96.9556	404.0587	6.9877	304.1873	73.1145	
17215		83.5970	10.4867	168.0604	43.6118	
18798		107.5180	1.3541	138.4193	28.2947	
18572	96.8524	908.0947	3.9575	1003.6540	145.8404	
21975	96.8524	257.9910	7.7455	181.2767	79.8482	
11531	96.8008	1110.7257	227.5568	408.4068	295.3104	
20032	96.8008	17.5237	1.7078	43.4604	15.2240	
10016	96.8008	404.6877	66.9408	201.8223	61.9310	
25899	96.7492	15.5163	0.2316	20.5485	7.1895	
23731	96.7492	263.6543	18.5718	159.9061	45.0677	
619	96.7492	22.4083	1.7778	36.5577	8.6468	
20770	96.6976	156.8697	23.4808	56.2296	41.2374	
1801	96.6976	120.4320	15.6344	76.8255	18.7138	
24536	96.6976	1355.7977	41.0844	998.6555	188.8572	
10015	96.6460	420.5977	68.7205	217.8729	63.7868	
25359	96.5944	33.1293	0.4272	43.7954	14.7516	
15253	96.5944	237.1250	24.9522	108.3637	47.0250	
11849	96.5944	1458.8320	107.8285	940.8786	195.5401	
12400	96.5428	48.3297	12.2020	24.2917	8.7001	
17736	96.4912	1642.5653	546.3408	621.3711	360.1573	
16552	96.4912	92.8863	24.4873	38.9750	18.7740	
18357	96.4912	323.6223	3.3133	319.9372	82.7828	
16017	96.4912	74.2610	4.5885	117.0576	30.0746	
15513	96.4912	166.9317	2.7130	189.9391	42.3197	
11530	96.4396	601.3107	161.2935	210.8034	173.7607	
18054	96.4396	83.6250	2.1335	126.2777	31.6272	
7050	96.4396	67.4593	1.1035	60.3158	24.3089	
22675	96.3880	87.7107	18.4663	30.8168	20.8898	
24814	96.3880	125.6697	30.0655	71.9543	16.4597	
20518	96.3364	175.7517	3.1089	226.4270	41.2545	
13151		3338.0793	190.6440	2187.6161	569.2195	
25816	96.2848	17.6030	0.4452	25.6224	8.5933	
22555		29.4340	3.0467	12.0415	8.1039	
5622		406.5067	100.2078	206.3462	60.9271	
16218	96.2332	1127.6243	21.3959	845.7607	365.8797	
22552	96.1816	715.1360	22.1595	452.2379	173.4372	
4327	96.1816	157.7943	47.5454	91.5411	27.7979	
6100		3273.6163	299.3398	2108.3253	503.6042	
11454		286.6350	5.8844	210.0435	63.7797	
25529		38.6000	0.7893	38.3339	74.3495	
2853		150.4390	47.4404	80.3220	24.7315	
343		58.3073	4.3074	53.2117	43.8789	
1478		23.1500	0.6358	37.8936	24.9431	
18148		59.9527	2.7085	98.7423	29.3865	
3527	99.8452	12.9287	0.0487	24.7505	21.0113	
3931		107.6857	0.2150	127.5319	30.5123	
7036		101.0093	0.1155	113.8784	21.4829	
12324	99.1228	35.7033	6.6789	-35.6344	38.6620	

TABLE 50: EpinephrineCore Tox Markers Timepoint(s): 24 hrs			Atty.	Ref. 44921-5090	-01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13717		74.7137	0.9743	112.0620	23.7583
21509		787.7937	27.5886	445.5429	136.0931
24135		380.8940	1.7808	259.5384	91.8464
11644	98.8648	510.5817	20.1340	224.8430	82.1521
22026	98.8132	3518.2023	8.7712	3305.1771	1100.9499
11166	98.7616	228.4097	13.3451	124.5399	35.4118
24209		130.9367	14.5426	3.0070	41.7960
3211	98.7100	136.1203	47.1696	6.0020	17.2314
4049	98.6584	757.4380	272.8084	42.0070	124.2871
4048		331.6660	154.6004	18.3030	75.1596
24270	98.5552	238.9863	2.3146	170.0291	58.4029
22592	98.5552	836.2727	287.0068	201.6477	133.2668
23326	98.5036	111.8597	0.4384	126.6552	27.4519
1506	98.4520	336.9553	11.6236	239.0523	37.0479
3165		33.5920	0.3715	30.7942	25.0551
17106		49.6850	0.6158	75.5109	26.2033
23435	98.2972	27.0300	1.9148	-34.1479	49.1359
13929	98.2456	331.9700	89.3004	110.4635	47.9681
10970	98.2456	42.4007	1.1561	84.6732	32.6599
21771	98.2456	1064.0957	7.2340	920.3425	230.4271
16062	98.2456	1259.5520	34.4070	841.6006	186.6852
4207	98.2456	291.3373	74.6083	122.4612	41.6400
23511	98.1940	124.6603	2.0103	76.6181	30.8712
13915	98.1424	61.3407	0.3722	68.1771	16.9576
3832	98.1424	57.6423	0.5583	78.0201	35.2295
13702	97.9876	24.4990	0.7311	49.7110	21.5412
894	97.9876	409.7137	21.2847	213.4587	79.8531
4969	97.9360	113.4747	56.9545	-18.6405	48.1540
2765	97.8844	165.9460	2.0674	115.4260	33.7180
5228	97.8844	172.1703	63.8689	17.5026	45.0830
18581	97.8844	309.6860	8.9991	224.5213	58.7700
2125	97.8328	458.4750	239.1954	110.1359	89.7111
5760	97.8328	166.8853	2.3547	125.9282	28.0269
10310	97.8328	468.2403	34.3944	773.8072	151.8248
8347	97.8328	125.8373	71.4582	33.1032	24.2624
16971	97.7296	604.9870	2.2495	625.9080	110.1953
10096	97.7296	45.2850	0.7088	67.9757	27.8152
4490	97.7296	350.7433	99.1027	71.4423	77.3708
15004	97.6780	1513.7483	676.9818	333.7069	264.8772
11634	97.6780	63.2070	1.0015	104.1398	33.6241
6606	97.6780	4957.6607	591.8675	1868.8558	759.0889
14945	97.6780	201.9357	4.8148	312.2025	284.6709
19396	97.6780	77.0060	0.5804	64.5836	22.0189
9808	97.6264	21.9317	0.2473	28.2164	12.7466
9546	97.6264	248.0543	3.4682	348.8435	71.5539
21252	97.6264	21.4473	0.3102	27.0436	17.6819
8058	97.6264	502.7917	51.4777	316.4540	55.8216
4945	97.6264	48.4333	2.8325	114.2217	62.8329
24089	97.6264	383.9677	11.7182	215.7464	102.1879
2531	97.5748	232.7287	19.4053	128.3824	43.7997
4475	97.5232	121.5643	1.2526	98.1603	24.6261
6098	97.5232	62.4710	5.0207	104.3365	21.8370

TABLE 50: Epi	nephrineCor	e Tox Markers	Atty.	Ref. 44921-5090	-01-WO/2105485
Timepoint(s): 2	24 hrs 📑 🤻	e* *			
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24040	97.5232	858.5613	317.0292	373.3416	133.6995
21166	97.5232	678.6667	202.1629	312.2661	87.1282
1901	97.4716	51.5103	3.4812	72.1035	66.0043
11995	97.4716	58.4227	0.5425	67.8725	29.5639
18198	97.4200	223.5667	0.9721	230.7480	62.4391
9218	97.4200	47.6807	0.8715	71.3801	31.9428
23097	97.4200	133.0247	18.6534	70.5065	23.7675
5227	97.4200	284.8487	20.7484	153.0970	50.7078
10053	97.4200	49.2487	0.7590	66.8934	38.0980
18848	97.3684	16.4617	0.3413	27.1611	11.3058
10028	97.3684	205.4137	3.2177	278.2003	56.9774
21796	97.3684	623.4527	184.6330	267.9207	90.6188

21682   99,7415   170,2106   17,8746   -10,0941   54,1422   24716   99,3795   83,0638   44,2356   -7,6759   9,6675   2628   99,3795   101,2262   21,4093   9,7733   13,5113   4512   99,0176   100,1628   9,2839   23,0663   27,6873   18349   98,9142   419,5130   34,5782   174,2737   61,4315   4407   98,9142   183,4034   28,3841   76,5220   20,5864   21238   98,8625   110,8422   41,3186   -25,5080   25,5893   22625   98,8625   281,454   124,1975   64,9472   26,9144   20,0161   98,7590   283,5106   45,0052   35,6002   36,8072   16318   98,7590   194,4522   99,2263   39,8236   20,4925   21683   98,7073   383,5616   293,5490   93,0553   39,5025   212978   98,6556   555,1498   216,9557   52,3884   68,529   212978   98,6556   604,7244   207,4892   125,0557   110,9162   2629   98,6039   563,6039   556,0024   31,0059   34,3005   36,0024   36,8793   38,0059   39,6052   36,0024   36,8793   38,0059   39,6053   39,5025   39,6024   30,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8023   39,8		EPINEPHRIN	E ·	Atty. Re	ef. 44921-5090-01	I-WO/2105485
21682         99.7415         170.2108         17.8746         -10.0941         54.1422           24716         99.3795         53.0638         44.2356         -7.6759         9.6675           2628         99.3795         101.2262         21.4093         9.7733         13.511           4512         99.0176         100.1628         9.2839         23.0663         27.6873           1475         98.9659         2131.2934         1187.2937         99.1846         236.0731           18349         98.9142         419.5130         34.5782         174.2737         61.4318           4407         98.9142         183.4034         28.3841         76.5220         20.5862           21238         98.8625         110.8422         41.3186         -25.5080         25.5893           22625         98.8625         288.1454         124.1975         64.9472         20.914           20161         98.7590         194.4522         99.263         39.8624         38.8793           16318         98.7590         194.4522         99.2263         39.8533         39.5022           21683         98.7073         187.7900         12.6924         48.5710         35.0624           18259	I Imepoint(s	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
24716         99.3795         83.0638         44.2356         -7.6759         9.6675           2628         99.3795         101.2262         21.4093         9.7733         13.5113           4512         99.0176         100.1628         9.2839         23.0663         27.6873           1475         98.9659         2131.2934         1187.2397         99.1846         236.0731           18349         98.9142         183.4034         28.3841         76.5220         20.5862           21238         98.8625         110.8422         41.3186         -25.5080         25.5892           22625         98.8625         288.1454         124.1975         64.9472         26.914           20161         98.7590         283.5106         45.0052         35.6024         38.8791           168318         98.7073         383.5616         293.5490         93.0553         39.5022           21683         98.7073         383.5616         293.5490         93.0553         39.5022           23872         98.6556         555.1498         216.9557         52.3884         68.529           12978         98.6556         525.5664         109.3731         77.0000         48.5301           10181						
2628         99.3795         101.2662         21.4093         9.7733         13.5112           4512         99.0176         100.1628         9.2839         23.0663         27.6873           1475         99.0659         2131.2934         1187.2397         99.1846         236.073           18349         98.9142         419.5130         34.5782         174.2737         61.4315           4407         98.9142         183.4034         28.3841         76.5220         20.586           21238         98.8625         110.8422         41.3186         -25.5080         25.5893           22625         98.8625         2283.1506         45.0052         35.6024         36.8792           20161         98.7590         283.5106         45.0052         35.6024         36.8793           16318         98.7590         194.4522         99.2263         39.8236         20.4925           21683         98.7073         187.7900         12.6924         48.5710         35.0644           18259         98.7073         187.7900         12.6924         48.5710         35.0644           18278         98.6556         555.1498         216.9557         52.3884         68.5296           19278 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
4512         99.0176         100.1628         9.2839         23.0663         27.6873           1475         98.9699         2131.2934         1187.2337         99.1846         236.0731           18349         98.9142         419.5130         34.5782         174.2737         61.4312           4407         98.9142         183.4034         28.3841         76.5220         20.586           21238         98.625         110.8422         41.3186         -25.5080         25.589           22625         98.8625         288.4454         124.1975         64.9472         20.914           20161         98.7590         283.5106         45.0052         35.6024         36.879           16318         98.7073         187.7900         12.6924         48.5710         35.064           18259         98.7073         383.5616         293.5490         93.0553         39.5024           23872         98.6556         555.1498         216.9557         52.3884         68.529           12978         98.6556         555.1498         216.9557         52.3884         68.529           10181         98.6556         604.7244         207.4892         125.0557         110.96           2629 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
1475         98.9659         2131.2934         1187.2397         99.1846         236.0731           18349         98.9142         419.5130         34.5762         174.2737         61.4315           4007         98.9142         183.4034         28.3841         76.5220         20.5866           21238         98.8625         110.8422         41.3186         -25.5080         25.5893           22625         98.8625         288.1454         124.1975         64.9472         26.914           20161         98.7590         283.5106         45.0052         35.6024         36.8791           16318         98.7590         194.4522         99.2263         39.8236         20.4925           21683         98.7073         383.5616         293.5490         93.0553         39.5022           21683         98.7073         383.5616         293.5490         93.0553         39.5022           23872         98.6556         555.1498         216.9557         52.3884         68.5290           12978         98.6536         329.5664         109.3731         77.0005         48.5301           10181         98.6552         369.938         56.7244         207.4892         125.057         10.916 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
18349   98.9142   419.5130   34.5762   174.2737   61.4315     4407   98.9142   183.4034   28.3841   76.5220   20.5864     21238   98.8625   110.8422   41.3186   -25.5080   25.5895     22625   98.8625   288.1454   124.1975   64.9472   26.914     20161   98.7590   283.5106   45.0052   33.6024   36.8795     16318   98.7590   194.4522   99.2263   39.8236   20.4925     21683   98.7073   187.7900   12.6924   48.5710   35.0644     18259   98.7073   383.5616   293.5490   93.0553   39.5025     23872   98.6556   555.1498   216.9557   52.3884   68.5295     12978   98.6556   604.7244   207.4892   125.0557   110.9165     2629   98.6039   164.3506   51.0557   20.7590   13.2844     18059   98.6039   164.3506   51.0557   20.7590   32.8245     18059   98.6039   259.6754   203.7536   28.0897   34.0605     16312   98.5522   269.9038   57.0820   66.9923   34.2805     23871   98.5522   162.5520   44.4375   41.5533   21.0215     23869   98.5522   162.5520   44.4375   41.5533   21.0215     23869   98.5522   376.3680   133.3922   41.0667   56.341     11113   98.5522   74.9128   5.2741   36.0679   19.500     24431   98.5005   579.7786   203.5851   74.1401   65.813     357   98.3454   410.7850   196.9638   93.4415   55.437     17908   98.3454   247.8356   89.2240   43.3927   31.229     25730   98.3454   247.8356   89.2240   43.3927   31.229     25730   98.3454   27.7936   49.0958   40.7630   43.8095     25730   98.3454   27.7936   49.0958   40.7630   43.8095     25730   98.2420   154.5252   82.8649   16.6897   16.103     26368   98.2420   154.5252   82.8649   16.6897   16.103     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26.862     26369   98.2420   174.534   44.7091   64.5007   26						
4407   98.9142   183.4034   28.3841   76.5220   20.5866     21238   98.8625   288.1454   124.1975   64.9472   26.9144     20161   98.7590   283.5106   45.0052   35.6024   36.8795     16318   98.7590   194.4522   99.2263   39.8236   20.4925     16318   98.7590   194.4522   99.2263   39.8236   20.4925     16318   98.7591   194.4522   99.2263   39.8236   20.4925     16329   98.7073   383.5616   293.5490   93.0553   39.5025     23872   98.6556   555.1498   216.9557   52.3884   68.529     12978   98.6556   555.1498   216.9557   52.3884   68.529     12978   98.6556   604.7244   207.4892   125.0557   110.9162     2629   98.6039   164.3506   51.0557   20.7590   32.844     18059   98.6039   259.6754   203.7536   28.0897   34.0605     16312   98.5522   135.7288   56.5042   11.7060   36.0494     163312   98.5522   135.7288   56.5042   11.7060   36.0494     23871   98.5522   135.288   56.5042   11.7060   36.0495     23871   98.5522   74.9128   52.741   36.0679   19.5001     24431   98.5055   579.7786   203.5851   74.1401   65.813     357   98.5005   579.7786   203.5851   74.1401   65.813     357   98.3454   410.7850   196.9638   93.4415   58.437     17908   98.3454   247.8356   89.2240   43.3927   31.2294     18597   98.3454   247.8356   89.2240   43.3927   31.2294     18597   98.3454   247.8356   89.2240   43.3927   31.2295     23868   98.3454   247.8356   89.2240   43.3927   31.2295     25730   98.3454   247.8356   89.240   43.3927   31.2296     263868   98.2937   718.8056   84.6612   12.7804   29.986     16122   98.2937   718.8056   84.6612   12.7804   29.986     16122   98.2937   178.8056   84.6612   12.7804   29.986     16122   98.2937   171.8056   84.6612   12.7804   29.986     16122   98.2937   171.8056   84.6612   12.7804   29.986     16122   98.2937   171.8056   84.6612   12.7804   29.986     16122   98.2937   171.8056   84.6612   12.7804   29.986     20169   98.2420   154.5252   82.8649   16.6897   16.103     20169   98.2420   154.5252   82.8649   16.6897   16.103     20169   98.2420   154.5252   82.8649   16.6						
21238         98.8625         110.8422         41.3186         -25.5080         25.589           22625         98.8625         288.1454         124.1975         64.9472         26.914           20161         98.7590         283.5106         45.0052         35.6024         36.8791           16318         98.7590         194.4522         99.2263         39.8236         20.4925           21683         98.7073         187.7900         12.6924         48.6710         35.0644           18259         98.7073         383.5616         293.5490         93.0553         39.5025           23872         98.6556         555.1498         216.9557         52.3884         68.5290           12978         98.6556         329.5664         109.3731         77.0005         48.530           10181         98.6556         604.7244         207.4892         125.0557         110.916           2629         98.6039         164.3506         51.0557         20.7590         13.2844           18059         98.6039         259.6754         203.7536         28.0897         34.2802           18059         98.6039         259.6754         203.7536         28.0897         34.2802           18						
22625         98.8625         288.1454         124.1975         64.9472         26.914           20161         98.7590         283.5106         45.0052         35.6024         36.879           16318         98.7590         194.4522         99.2263         39.8236         20.4925           21683         98.7073         187.7900         12.6924         48.5710         35.0644           18259         98.7073         333.5616         293.5490         93.0553         39.5021           23872         98.6556         555.1498         216.9557         52.3884         68.5291           12978         36.6556         555.1498         216.9557         52.3884         68.5291           12978         36.6556         504.7244         207.74892         125.0557         110.916           2629         98.6039         164.3506         51.0557         20.7590         13.2841           18059         98.6039         259.6754         203.7536         28.0897         34.280           567         98.5522         162.5520         44.4375         41.563         24.060           567         98.5522         162.5520         44.4375         41.563         21.721           23869						
20161						
16318         98.7590         194.4522         99.263         39.8236         20.4925           21683         98.7073         187.7900         12.6924         48.5710         35.0645           18259         98.7073         383.5616         293.6490         93.0553         39.5025           23872         98.6556         555.1498         216.9557         52.3884         68.5290           12978         98.6556         329.5664         109.3731         77.0005         48.5301           10181         98.6556         604.7244         207.4892         125.0557         110.916           2629         98.6039         164.3506         51.0557         20.7590         13.2844           18059         98.6039         259.6754         203.7536         28.0897         34.0605           16312         98.5522         269.9038         57.0820         66.9923         34.2800           23871         98.5522         162.5520         44.4375         41.5533         21.021           23869         98.5522         376.3680         133.3922         41.0667         56.341           11113         98.5522         74.9128         5.2741         36.0679         19.504           141113<						
21683         98.7073         187.7900         12.6924         48.5710         35.0644           18259         98.7073         383.5616         293.5490         93.0553         39.5021           23872         98.6556         555.1498         216.9557         52.3884         68.5291           12978         98.6556         555.1498         216.9557         52.3884         68.5291           12978         98.6556         604.7244         207.4892         125.0557         110.9162           2629         98.6039         164.3506         51.0557         20.7590         13.2846           18069         98.6039         259.6754         203.7536         28.0897         34.0603           16312         98.5522         269.9038         57.0820         66.9923         34.2802           567         98.5522         135.7288         56.5042         11.7060         36.0492           23871         98.5522         135.7288         56.5042         11.7060         36.0412           11113         98.5522         176.3680         133.3922         41.0667         56.3412           11113         98.5022         74.9128         5.2741         36.0679         19.5002           2443				1		
18259         98.7073         383.5616         293.5490         93.0553         39.5025           23872         98.6556         555.1498         216.9557         52.3884         68.529           12978         98.6556         329.5664         109.3731         77.0005         48.530           10181         98.6556         604.7244         207.4892         125.0557         110.916           2629         98.6039         164.3506         51.0557         20.7590         13.2844           18059         98.6039         259.6754         203.7536         28.0897         34.060           16312         98.5522         269.9038         57.0820         66.9923         34.280           567         98.5522         135.7288         56.5042         11.7060         36.049           23871         98.5522         162.5520         44.4375         41.5533         21.021           23869         98.5522         174.9128         5.2741         36.0677         91.500           24431         98.5005         579.7786         203.5851         74.1401         65.813           357         98.3454         410.7850         196.9638         93.4415         84.374           18597						
23872         98.6556         555.1498         216.9557         52.3884         68.5290           12978         98.6556         329.5664         109.3731         77.0005         48.5301           10181         98.6556         604.7244         207.4892         125.0557         110.9162           2629         98.6039         164.3506         51.0557         20.7590         13.2844           18059         98.6039         259.6754         203.7536         28.0897         34.0603           16312         98.5522         269.9038         57.0820         66.9923         34.2802           567         98.5522         162.5520         44.4375         41.5533         21.0213           23871         98.5522         162.5520         44.4375         41.5533         21.0213           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.500           24431         98.5005         579.7786         203.5851         74.1401         66.813           357         98.5052         111.4196         22.3553         25.1729         17.2244           18597 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
12978			<del></del>			
10181				<del></del>		
2629         98.6039         164.3506         51.0557         20.7590         13.2840           18059         98.6039         259.6754         203.7536         28.0897         34.0605           16312         98.5522         269.9038         57.0820         66.9923         34.2802           567         98.5522         135.7288         56.5042         11.7060         36.0498           23871         98.5522         162.5520         44.4375         41.5533         21.0213           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5052         74.9128         5.2741         36.0679         19.5002           24431         98.5005         579.7786         203.5851         74.1401         65.813           357         98.5005         579.7786         203.5851         74.1401         65.813           357         98.5454         410.7850         196.9638         93.4415         58.437           17908         98.3454         247.8356         89.2240         43.3927         31.229           356         98.3454         229.7986         49.0958         40.7630         43.8093           25730				<u> </u>		
18059         98.6039         259.6754         203.7536         28.0897         34.0606           16312         98.5522         269.9038         57.0820         66.9923         34.2802           567         98.5522         135.7288         56.5042         11.7060         36.0496           23871         98.5522         162.5520         44.4375         41.5533         21.0213           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.5003           24431         98.5005         579.7786         203.5851         74.1401         65.8133           357         98.5005         111.4196         22.3553         25.1729         17.2244           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4301           13930						<del></del>
16312         98.5522         269.9038         57.0820         66.9923         34.2802           567         98.5522         135.7288         56.5042         11.7060         36.0499           23871         98.5522         162.5520         44.4375         41.5533         21.0212           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.5003           24431         98.5005         579.7786         203.5851         74.1401         65.8133           357         98.5005         111.4196         22.3553         25.1729         17.2244           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4308           223         98.2937         541.6812         170.7749         109.4264         59.386           16122			<del></del>			<del>        _            </del>
567         98.5522         135.7288         56.5042         11.7060         36.0498           23871         98.5522         162.5520         44.4375         41.5533         21.0213           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.5003           24431         98.5005         579.7786         203.5851         74.1401         65.813           357         98.5005         111.4196         22.3553         25.1729         17.2240           18597         98.3454         410.7850         196.9638         93.4415         58.437           17908         98.3454         229.7986         49.0958         40.7630         43.809           25730         98.3454         229.7986         49.0958         40.7630         43.809           25730         98.3454         513.9482         88.0797         223.3287         70.430           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         178.8056         84.6612         12.7804         23.986           16122			<del></del>			
23871         98.5522         162.5520         44.4375         41.5533         21.0213           23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.5003           24431         98.5005         579.7786         203.5851         74.1401         65.8133           357         98.5005         111.4196         22.3553         25.1729         17.2244           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.809           25730         98.3454         513.9482         88.0797         223.3287         70.430           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         201.4534         44.7091         64.5007         26.8626           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868						<del></del>
23869         98.5522         376.3680         133.3922         41.0667         56.3412           11113         98.5522         74.9128         5.2741         36.0679         19.5002           24431         98.5005         579.7786         203.5851         74.1401         65.813           357         98.5005         111.4196         22.3553         25.1729         17.2240           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.229           356         98.3454         229.7986         49.0958         40.7630         43.809           25730         98.3454         513.9482         88.0797         223.3287         70.430           13930         98.2937         178.8056         84.6612         12.7804         23.986           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.862           23868         98.2420         1389.5956         403.1165         212.1732         214.432           355						
11113         98.5522         74.9128         5.2741         36.0679         19.5003           24431         98.5005         579.7786         203.5851         74.1401         65.813           357         98.5005         111.4196         22.3553         25.1729         17.2240           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4300           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         201.4534         44.7091         64.5007         26.8620           23868         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         154.5252         82.8649         16.6897         16.103           20169			<del></del>	<del> </del>		
24431         98.5005         579.7786         203.5851         74.1401         65.8132           357         98.5005         111.4196         22.3553         25.1729         17.2240           18597         98.3454         410.7850         196.9638         93.4415         58.437           17908         98.3454         247.8356         89.2240         43.3927         31.2290           356         98.3454         229.7986         49.0958         40.7630         43.8091           25730         98.3454         513.9482         88.0797         223.3287         70.4300           13930         98.2937         541.6812         170.7749         109.4264         59.386           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8620           23868         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483			<del></del>			
357         98.5005         111.4196         22.3553         25.1729         17.2240           18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2290           356         98.3454         229.7986         49.0958         40.7630         43.8092           25730         98.3454         513.9482         88.0797         223.3287         70.4301           13930         98.2937         541.6812         170.7749         109.4264         59.3881           223         98.2937         178.8056         84.6612         12.7804         23.9861           16122         98.2937         201.4534         44.7091         64.5007         26.8620           23868         98.2420         1389.5956         403.1165         212.1732         214.4320           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663			<del></del>			
18597         98.3454         410.7850         196.9638         93.4415         58.4374           17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4306           13930         98.2937         541.6812         170.7749         109.4264         59.386           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.862           23868         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663						
17908         98.3454         247.8356         89.2240         43.3927         31.2296           356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4306           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804				<del></del>		<del> </del>
356         98.3454         229.7986         49.0958         40.7630         43.8099           25730         98.3454         513.9482         88.0797         223.3287         70.4308           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.4326           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.7922           11483         98.1903         331.7654         63.7991         98.4505         41.2669           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46						
25730         98.3454         513.9482         88.0797         223.3287         70.4308           13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.4328           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.7922           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         57.2454         16.2227         12.5417         12.870           5297						<del> </del>
13930         98.2937         541.6812         170.7749         109.4264         59.388           223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.4329           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.7922           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433	<del></del>					
223         98.2937         178.8056         84.6612         12.7804         23.986           16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.4329           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.7922           11483         98.1903         331.7654         63.7991         98.4505         41.2669           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433					<del></del>	<del></del>
16122         98.2937         201.4534         44.7091         64.5007         26.8626           23868         98.2420         1389.5956         403.1165         212.1732         214.4329           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384						
23868         98.2420         1389.5956         403.1165         212.1732         214.432           355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         <			<del></del>			
355         98.2420         116.8578         31.5423         9.6020         28.003           923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083	L	<del></del>		<del></del>		
923         98.2420         154.5252         82.8649         16.6897         16.103           20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.0986           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         645.3834         325.2897         161.4268         73.411           15708						
20169         98.2420         277.0936         95.7389         72.8978         72.792           11483         98.1903         331.7654         63.7991         98.4505         41.2669           21663         98.1386         1165.2894         270.7719         378.5087         180.0986           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797						
11483         98.1903         331.7654         63.7991         98.4505         41.266           21663         98.1386         1165.2894         270.7719         378.5087         180.098           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         <						<del></del>
21663         98.1386         1165.2894         270.7719         378.5087         180.0986           804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352 <t< td=""><td><u></u></td><td><del></del></td><td></td><td><del></del></td><td>·</td><td></td></t<>	<u></u>	<del></del>		<del></del>	·	
804         98.1386         189.0236         66.4419         51.8934         27.615           46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002					·	<del></del>
46         98.1386         313.5256         74.0148         120.9001         39.025           20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002	ļ	<u> </u>		<del></del>		
20193         98.1386         57.2454         16.2227         12.5417         12.870           5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002		<del> </del>		<del></del>		
5297         98.0869         636.1846         281.5152         204.1140         87.408           20433         98.0352         184.8048         32.5754         65.0037         33.937           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002		<del></del>		<del></del>		
20433         98.0352         184.8048         32.5754         65.0037         33.9376           5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002	1		<del></del>	<del></del>	<del></del>	
5384         97.9835         384.9230         132.8474         41.3148         52.160           15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002				<del></del>		
15829         97.9835         422.2494         148.8760         49.0116         67.918           15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002				<del></del>		<del></del>
15083         97.9835         171.2682         27.3645         67.0638         26.470           354         97.9835         645.3834         325.2897         161.4268         73.411           15708         97.9835         68.0462         26.7231         5.2693         17.761           12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002				<del></del>	<del></del>	
354     97.9835     645.3834     325.2897     161.4268     73.411       15708     97.9835     68.0462     26.7231     5.2693     17.761       12797     97.9317     101.6880     13.3643     47.5052     17.560       352     97.8800     192.5686     39.9891     60.2376     41.002						
15708     97.9835     68.0462     26.7231     5.2693     17.761       12797     97.9317     101.6880     13.3643     47.5052     17.560       352     97.8800     192.5686     39.9891     60.2376     41.002		<del> </del>				
12797         97.9317         101.6880         13.3643         47.5052         17.560           352         97.8800         192.5686         39.9891         60.2376         41.002	<del></del>			<del></del>		
352 97.8800 192.5686 39.9891 60.2376 41.002			<del></del>			
			<del></del>	<del></del>		
I ZADINI MIDZOAI ND AMADI 13 NUZZI AJ 18041 14.182	23679		<del></del>			
1 200.01						

	EPINEPHRIN	IE	Atty. R	ef. 44921-5090-0	1-WO/2105485
Timepoint(s	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21239	97.7766	419.1316	103.8663	117.8727	59.5662
363	97.7249		36.2308	44.6670	19.8781
21653	97.6732	269.1608		115.9132	40.0318
3455	97.6732	281.7104	41.5154	138.5602	42.1055
1742	97.6732	118.7334	36.8921	32.6240	21.3836
1609	97.6215	1636.9828	249.3978	870.5481	286.6682
17765	97.6215	2256.6424	206.1313	1392.1893	281.3979
16123	97.6215	356.9620	118.1274	104.5867	44.3935
3454	97.6215	159.1384	24.8517	67.3493	29.6367
19086	97.5181	189.6412	55.5297	74.7669	27.1096
19	97.5181	509.6354	72.6219	322.9745	72.9912
15300	97.4664	940.0314	379.0212	241.4715	130.2713
16080	97.4664	103.3676	18.5126	16.6288	40.9284
22412	97.4147	213.8002	101.9986	92.0753	29.7683
18396	97.4147	142.5440	59.4536	42.1700	30.7788
17401	97.3630	1642.7358	584.4295	603.1921	226.6601
3404	97.3630	316.6988	21.2199	210.0892	45.2233
15082	97.3630	191.4824	43.5429	48.8199	46.6366
4133	97.3113	64.0094	4.7748	103.9881	20.9217
16025	97.3113	53.0716	4.6147	104.1006	29.2162
11940	97.3113	48.1170	6.9000	25.1038	8.4766
16074	97.3113	115.4958	11.8207	186.5315	30.3132
4318	97.1562	20.0936	9.9767	3.5640	4.5068
17589	97.0527	21.7392	1.4012	6.2329	8.9129
9815	97.0010	121.5864	6.2765	78.7610	20.0110
16081	96.8976	208.6630	38.2141	87.3138	66.7896
18713	96.7942	375.9924	80.3421	221.3549	52.5204
1581	96.6908	487.9414	68.3975	296.6913	60.0325
399	96.6391	21.2000	5.2149	8.9482	4.9132
1844	96.6391	210.7696	6.9139	161.9336	34.8342
21723	96.5874	58.5174	2.8000	99.0297	32.4967
1745	96.3806	67.6086	16.1516	27.6620	13.5013
1061	96.3806	17.0476	4.4648	73.7109	45.1607
16026	96.3806	73.2400	12.3368	158.9491	46.8871
22499	96.2771	50.3252	8.1201	20.7980	11.9808
24219	96.2771	500.8952	77.0303	295.5761	84.1890
5758	96.1737	1258.2172	121.1144	728.8533	206.4390
21120	96.1220	237.1964	12.0230	152.8194	43.9886
25279	96.1220	442.4454	35.8349	292.9163	67.1991
17764	95.7601	2977.1100	324.5606	1942.9901	394.5485
20625	95.6567	456.8968	51.0519	1082.0410	486.7048
19646	95.6567	39.9698	21.4456	149.1969	60.1966
15711	95.5533	179.5744	33.3786	89.3327	33.1025
16499	95.5533	-5.5418	21.9029	57.5645	33.5151
21147	95.5016	35.6852	3.2769	18.0286	11.2225
904	95.4498	32.7976	4.1948	64.3982	18.2465
3799	95.3464	649.1842	137.6624	381.4697	114.1595
15414	95.3464	-5.7218	12.5874	23.8691	11.5189
19031	99.4312	982.6658	120.6744	258.9055	111.5534
7751	98.9142	55.7776	3.6708	26.6190	11.5282
23567	98.8108	227.4204	26.5291	45.3472	63.3799
19184	98.7590	147.1298	47.5142	18.3058	24.0398
.5.04	00.7000	171.1230	47.0142	10.3030	24.0390

TABLE 5P: EPINEPHRINE Atty. Ref. 44921-5090-01-WO/210548 Timepoint(s): 3, 6 hrs							
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox		
12999	98.7073		138.6348	330.9860	292.274		
6054	98.7073	654.2018	295.6701	53.3184	92.2889		
12979	98.7073		169.5989	312.8437	193.9163		
2331	98.6556	2163.9720	213.8867	382.5205	338.0670		
18350	98.6556	291.0254	8.7395	140.0944	60.6023		
7516	98.6556	889.7998	438.7596	50.3085	173.9500		
22667	98.6556	192.7286	17.4709	58.4133	40.2171		
19012	98.5522	932.2302	108.1775	455.2176	113.5174		
13633	98.5522	1017.1960	159.6258	340.8687	103.9756		
14763	98.5005	515.9030	145.4453	24.0301	99.8684		
22681	98.5005	719.6722	146.8975	300.2426	83.8714		
13634	98.4488	1880.3100	310.7357	819.1229	207.2629		
11873	98.4488	547.9730	130.6466	147.4777	115.1875		
6532	98.4488	871.9112	84.2306	448.6074	126.2213		
16124	98.4488	689.2324	105.9491	229.3567	89.4439		
3808	98.4488	1608.7652	223.2933	559.1888	207.2589		
22765	98.3971	141.9492	37.6784	22.5669	21.4713		
16053	98.3971	395.9836	63.5918	117.6825	86.1723		
16136	98.3971	331.5860	111.5788	109.1438	39.2430		
8759	98.3454	459.3384	173.1906	35.6491	56.0602		
14117	98.3454	568.3832	116.5057	1162.3826	221.7568		
21579	98.3454	245.2786	54.3629	95.5227	33.1673		
5675	98.3454	621.6554	119.1463	157.2537	135.2641		
23314	98.2937	1539.4846	620.7748	80.2665	200.8598		
17506	98.2937	169.7166	50.5107	51.4166	25.8106		
19011	98.2420	1208.2564	183.0800	601.0513	123.8886		
8053	98.1903	310.3878	22.4150	161.7129	45.3874		
22958	98.1903	445.7316	55.1817	232.5878	63.3098		
11088	98.1903	40.7278	11.0571	113.6213	33.6357		
15212	98.1386	286.4968	137.2593	55.7180	36.3182		
10182	98.1386	376.9936	167.7702	31.6820	100.4641		
12969	98.1386	259.9774	9.3908	157.8627	44.2629		
19075	98.1386	230.6110	57.9787	113.1016	25.6307		
23626	98.1386	226.7950	99.5140	72.8989	32.6827		
11021	98.0869	644.2628	48.0691	325.7648	108.0945		
8314	98.0869	140.9914	51.7258	49.2117	24.8297		
3817	98.0869	311.6976	25.8985	180.3736	60.3209		
7471	98.0352	398.5200	92.0347	198.9423	49.9844		
6217	97.9835	196.6190	114.6867	58.2228	22.1304		
15051	97.9835	303.7946	68.2762	119.9003	108.7666		
19723	97.9317	293.6122	49.7000	109.3153	54.2319		
16314	97.9317	295.3764	66.9849	63.9732	47.2996		

TABLE 5Q: E Timepoint(s):		re Tox Markers		Atty.:Ref. 44921-50	090-01-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21682	99.7415			-10.0941	54.1422
24716		83.0638		-7.6759	9.6679
2628	99.3795	101.2262	21.4093	9.7733	13.5113
4512	99.0176	100.1628	9.2839	23.0663	27.6873
1475	98.9659	2131.2934	1187.2397	99.1846	236.0731
18349	98.9142	419.5130	34.5782	174.2737	61.4315
4407	98.9142	183.4034	28.3841	76.5220	20.5864
21238	98.8625	110.8422	41.3186	-25.5080	25.5893
22625	98.8625	288.1454	124.1975	64.9472	26.9144
20161	98.7590	283.5106	45.0052	35.6024	36.8795
16318	98.7590	194.4522	99.2263	39.8236	20.4925
21683	98.7073	187.7900	12.6924	48.5710	35.0644
18259	98.7073	383.5616	293.5490	93.0553	39.5025
23872	98.6556	555.1498	216.9557	52.3884	68.5290
12978	98.6556	329.5664	109.3731	77.0005	48.5301
10181	98.6556	604.7244	207.4892	125.0557	110.9162
2629	98.6039	164.3506	51.0557	20.7590	13.2840
18059	98.6039	259.6754	203.7536	28.0897	34.0609
16312	98.5522	269.9038	57.0820	66.9923	34.2802
567	98.5522	135.7288	56.5042	11.7060	36.0499
23871	98.5522	162.5520	44.4375	41.5533	21.0213
23869	98.5522	376.3680	133.3922	41.0667	56.3412
11113	98.5522	74.9128	5.2741	36.0679	19.5003
24431	98.5005	579.7786	203.5851	74.1401	65.8132
357	98.5005	111.4196	22.3553	25.1729	17.2240
21654	98.3454	551.3256	137.5534	203.2898	71.3742
18597	98.3454	410.7850	196.9638	93.4415	58.4374
17908	98.3454	247.8356	89.2240	43.3927	31.2296
356	98.3454	229.7986	49.0958	40.7630	43.8095
25730	98.3454	513.9482	88.0797	223.3287	70.4308
13930	98.2937	541.6812	170.7749	109.4264	59.3881
223	98.2937	178.8056	84.6612	12.7804	23.9861
16122	98.2937	201.4534	44.7091	64.5007	26.8626
23868	98.2420	1389.5956	403.1165	212.1732	214.4325
355	98.2420	116.8578	31.5423	9.6020	28.0037
923	98.2420	154.5252	82.8649	16.6897	16.1037
20169	98.2420	277.0936	95.7389	72.8978	72.7922
11483	98.1903	331.7654	63.7991	98.4505	41.2669
21663	98.1386	1165.2894	270.7719	378.5087	180.0980
804	98.1386	189.0236	66.4419	51.8934	27.6155
46	98.1386	313.5256	74.0148	120.9001	39.0253
20193	98.1386	57.2454	16.2227	12.5417	12.8705
5297	98.0869	636.1846	281.5152	204.1140	87.4082
20433	98.0352	184.8048	32.5754	65.0037	33.9370
5384	97.9835	384.9230	132.8474	41.3148	52.1603
15829	97.9835	422.2494	148.8760	49.0116	67.9183
353	97.9835	484.9402	257.6271	115.1804	63.5617
15083	97.9835	171.2682	27.3645	67.0638	26.4706
354	97.9835	645.3834	325.2897	161.4268	73.4115
15708	97.9835	68.0462	26.7231	5.2693	17.7616
12797	97.9317	101.6880	13.3643	47.5052	17.5608
352	97.8800	192.5686	39.9891	60.2376	41.0027
002	37.0000	192.0000	39.9091	00.2376	41.0027

Timepoint(s):		Atty. Ref. 44921-5090-01-WO/2105485			
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23679	97.8283	86.3938	11.8022	37.7964	14.1923
15301	97.7766	572.5162	219.7328	98.3793	76.7665
21239	97.7766	419.1316	103.8663	117.8727	59.5662
363	97.7249	105.5316	36.2308	44.6670	19.8781
17734	97.6732	3246.6368	927.5498	1040.2773	478.8499
17736	97.6732	2289.5822	894.5995	615.9135	340.7204
21653	97.6732	269.1608	56.6963	115.9132	40.0318
3455	97.6732	281.7104	41.5154	138.5602	42.1055
1742	97.6732	118.7334	36.8921	32.6240	21.3836
1609	97.6215	1636.9828	249.3978	870.5481	286.6682
17765	97.6215	2256.6424	206.1313	1392.1893	281.3979
16123	97.6215	356.9620	118.1274	104.5867	44.3935
3454	97.6215	159.1384	24.8517	67.3493	29.6367
20461	97.6215	39.3302	3.5153	86.2453	45.3078
11531	97.5698	1657.1368	674.6719	404.1289	281.1648
19086	97.5181	189.6412	55.5297	74.7669	27.1096
19	97.5181	509.6354	72.6219	322.9745	72.9912
11530	97.4664	1141.9942	494.4777	207.2001	158.9626
15300	97.4664	940.0314	379.0212	241.4715	130.2713
16080	97.4664	103.3676	18.5126	16.6288	40.9284
22412	97.4147	213.8002	101.9986	92.0753	29.7683
18396	97.4147	142.5440	59.4536	42.1700	30.7788
17401	97.3630	1642.7358		603.1921	226.6601
3404	97.3630	316.6988		210.0892	45.2233
15082	97.3630				46.6366
4133					20.9217
16025	97.3113			104.1006	29.2162
11940	97.3113			25.1038	8.4766
16074	97.3113		11.8207	186.5315	30.3132
19710	97.2596		32.6093	48.2437	22.2772
4318	97.1562	20.0936	9.9767	3.5640	4.5068
17589	97.0527	21.7392	1.4012	6.2329	8.9129
9815	97.0010	121.5864	6.2765	78.7610	20.0110
16081	96.8976	208.6630	38.2141	87.3138	66.7896
18713			80.3421	221.3549	52.5204
1581			68.3975	296.6913	60.0325
399		21.2000	5.2149	8.9482	4.9132
1844		<del></del>			34.8342
21723			<del></del>		32.4967
1745		<del> </del>		<del></del>	
1061			<del></del>		
16026	<del></del>		<del></del>		
22499	<del></del>				
24219					
5758		· <del> </del>	<del></del>		
21120					
25279					
10071	<del></del>	<del></del>	<del></del>		<del></del>
19031	<del></del>				
7751	<del></del>		<del> </del>		
23567		<del> </del>	<del></del>		
19184	<del></del>				

LGC ID	: 3, 6 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	100 N
12999	98.7073				SD Nontox
6054	98.7073				
12979				53.3184	92.288
2331	98.6556			312.8437	193.916
18350	98.6556		213.8867	382.5205	338.067
7516	98.6556	291.0254 889.7998	8.7395	140.0944	60.602
22667	98.6556	192.7286	438.7596	50.3085	173.950
19012	98.5522	932.2302	17.4709 108.1775	58.4133	40.217
13633	98.5522	1017.1960	159.6258	455.2176	113.517
22605	98.5005	298.9122	86.8134	340.8687	103.975
14763	98.5005	515.9030	145.4453	46.8640	36.532
22681	98.5005	719.6722	146.8975	24.0301	99.868
13634	98.4488	1880.3100	310.7357	300.2426	83.871
11873	98.4488	547.9730	130.6466	819.1229	207.262
6532	98.4488	871.9112	84.2306	147.4777	115.187
16124	98.4488	689.2324	105.9491	448.6074	126.221
3808	98.4488	1608.7652	223.2933	229.3567	89.443
22765	98.3971	141.9492	37.6784	559.1888	207.258
16053	98.3971	395.9836	63.5918	22.5669	21.471
16136	98.3971	331.5860	111.5788	117.6825	86.172
8759	98.3454	459.3384	173.1906	109.1438	39.243
14117	98.3454	568.3832	116.5057	35.6491 1162.3826	56.060
21579	98.3454	245.2786	54.3629	95.5227	221.756
5675	98.3454	621.6554	119.1463	157.2537	33.167
12695	98.2937	104.4010	32.7881	1.3002	135.264 31.219
23314	98.2937	1539.4846	620.7748	80.2665	200.859
17506	98.2937	169.7166	50.5107	51.4166	
19011	98.2420	1208.2564	183.0800	601.0513	25.810 123.888
8053	98.1903	310.3878	22.4150	161.7129	45.387
22958	98.1903	445.7316	55.1817	232.5878	
11088	98.1903	40.7278	11.0571	113.6213	63.309 33.635
15212	98.1386	286.4968	137.2593	55.7180	36.318
10182	98.1386	376.9936	167.7702	31.6820	100:464
12969	98.1386	259.9774	9.3908	157.8627	44.262
19075	98.1386	230.6110	57.9787	113.1016	25.630
6585	98.1386	2421.0914	359.2627	736.8839	413.8339
2459	98.1386	1898.8080	723.9863	121.3918	267.6246
23626	98.1386	226.7950	99.5140	72.8989	32.6827
11021	98.0869	644.2628	48.0691	325.7648	108.0945
8314	98.0869	140.9914	51.7258	49.2117	24.8297
3817	98.0869	311.6976	25.8985	180.3736	60.3209
7471	98.0352	398.5200	92.0347	198.9423	49.9844
6217	97.9835	196.6190	114.6867	58.2228	22.1304
15051	97.9835	303.7946	68.2762	119.9003	108.7666
19723	97.9317	293.6122	49.7000	109.3153	54.2319
16314	97.9317	295.3764	66.9849	63.9732	47.2996

TABLE 5R: Timepoint(s)			Atty. Re	ef. 44921-5090-01	-WO/2105485
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20065	93.6486	64.5336	15.5144	28.3182	29.0093
22773	92.3077	284.2659	40.2072	459.7835	112.4690
23491	90.0208	64.4093	19.8092	116.5459	34.5374
10540	89.9584	79.6845	31.1727	22.9667	23.9684
2143	88.4615	205.6064	19.3914		54.9187
3910	87.9418	117.9722	6.1754	145.6334	35.4866
15884	87.8274	428.9210	71.0840	724.7975	186.7630
2324	87.7859	100.4435	5.4519	81.7793	29.3883
8599	87.2557	161.8975	28.0984	100.2554	36.8683
15638	87.1622	563.8050	83.5590	932.5900	306.9782
3244	87.1622	194.1251	7.6588	175.9356	33.8489
9528	87.0062	39.5442	1.7304	38.7435	25.0338
20092	86.6944	37.2246	5.1645	34.0494	18.0370
20902	86.6424	136.3531	6.7880	158.2420	30.0573
2133	86.5385	46.9168	4.5796	34.4053	13.4303
15623	86.3306	245.5920	54.3446	418.3828	140.4630
634	86.2578	233.1804	64.6370	95.2150	54.3206
23569	86.0707	150.4479	7.7162	126.2006	23.9627
17764	86.0603	2515.6902	214.7747	1942.4118	398.2909
18654	86.0083	104.5548	44.7109	218.9800	64.6883
1016	85.9667	130.3715	17.5267	94.4053	45.5947
18031	85.9148	331.9946	28.2218	387.7143	97.9114
23033	85.9148	382.1855	34.8056	526.8407	135.4403
18957	85.8524	1133.3488	53.5900	910.3338	163.5995
20518	85.8108	184.9967	10.9456	226.6997	41.2712
635	85.3222	173.9367	53.8127	93.8402	42.0856
25619	85.2807	737.8122	95.7001	572.0521	115.1693
25525	85.2703	185.5478	54.7659	78.6183	46.6012
20601	85.1351	60.9161	6.8553	83.8053	29.2937
20876	85.1247	1477.8560	94.3479	1188.7541	225.8488
25237	85.0312	36.8579	15.2615	80.7048	36.1521
25066	84.7713	236.0595	50.3392	163.9011	83.2976
187	84.7609	138.2698	29.4137	54.9629	47.4598
10888	84.7609	63.2809	6.7913	52.5103	31.2517
1291	84.7089	349.3815	44.9135	256.0730	55.9576
17936	84.3971	42.1342	7.8386	28.8558	10.6646
16607	84.3555	161.5580	11.0476	140.6459	36.4500
17868	84.3035	91.0739	16.4840	137.3277	44.9267
409	84.2516	53.9426	2.9469	62.5564	12.5587
20972	84.1892	685.9562	126.8069	1004.5982	223.9314
17379	84.0333	566.0024	52.1466	437.6768	98.7187
2012	84.0333	51.4565	7.7452	73.9695	17.2172
1827	83.9397	24.3368	15.2526	75.2777	47.8439
20762	83.8877	73.8346	9.2642	91.5686	17.0952
25445 24874	83.8877	33.1559	6.2801	33.1519	27.0709
25569	83.8358	36.3819	4.0736	38.2723	18.4138
25070	83.7318	51.7451	9.8328	34.5213	17.6905
18061	83.7214 83.6694	210.4100	28.7273	159.6915	36.5691
16081		159.2217	21.0681	115.9734	32.9274
18967	83.6590 83.6071	145.6088	47.3785	87.3385	67.1593
20960	83.5655	393.5761	85.9385	203.7180	105.0874
20300	03.0000	691.0195	61.2470	520.7054	116.1343

	LE 5R: EPIRUBICIN Atty. Ref. 44921-5090-01-WO/21054					
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
17765	83.5135	1741.1042	178.9719	1393.0553	286.5207	
20959	83.5135	306.9811	36.5119	218.9331	62.0721	
16219	83.4719	484.5323	119.0956	789.5112	258.3472	
16099	83.4200	374.8630	21.6957	430.6596	62.5971	
21239	83.3992	221.4428	46.3566	118.3619	62.8627	
25618	83.3576	777.8311	87.4808	624.9041	128.5676	
14542	83.2640	30.6546	6.1426	21.3064	17.0990	
15875	83.1081	1422.4221	65.2450	1569.9365	300.7935	
15849	83.0977	497.5558	92.3428	271.6573	141.4369	
18057	83.0977	25.4141	2.6996	20.2121	9.4747	
9391	83.0561	2201.7503	129.6568	2047.1440	419.5544	
11202	83.0457	69.4587	10.5124	47.7518	15.8933	
4402	82.9938	267.3028	36.0275	194.1380	60.3745	
20619	82.9938	4.0962	6.6296	22.2013	13.2651	
22783	82.9522	609.1080	69.8339	472.5891	166.6911	
1824	82.9002	87.3108	10.0804	112.6497	25.9379	
9541	82.8378	555.4538	91.6877	402.8147	108.5197	
18729	82.7963	14.1671	11.8544	42.3843	27.7798	
1338	82.7339	51.0268	15.7818	26.4355	18.1819	
18317	82.7339	1103.1219	189.3486	630.0896	288.1701	
2577	82.6299	163.8201	10.2165	127.8969	39.1821	
19505	82.5780	29.6876	6.2768	49.9631	16.3707	
13731	82.5260	137.1868	20.1514	192.5144	41.4634	
25104	82.5260	293.0527	38.8201	173.1177	90.2175	
623	82.4844	110.7857	25.1048	165.3757	60.2912	
2735	82.4740	28.9793	6.0732	18.2200	15.8770	
10743	82.4324	127.0427	17.4009	164.5138	43.0218	
15886	82.3701	283.3204	46.2343	407.5226	96.1521	
16084	82.3285	23.4277	5.1613	34.5399	14.6850	
338	82.3285	9.6305	10.6024	41.6928	35.9824	
15864	82.2765	42.2848	9.5215	64.2521	21.7497	
5358	82.2765	30.1691	9.1089	52.8179	32.3491	
20161	82.2557	72.3282	30.7027	36.5091	40.8862	
16675	82.2245	6.4648	9.8542	23.9162	17.4864	
20509	82.2245	41.7443	3.8443	35.8325	15.1488	
24234	82.2141	110.0508	21.1288	77.0101	32.6692	
15037	82.2141	158.7025	43.1588	251.0986	68.6957	
17960	82.1726	115.5419	19.4553	135.9037	33.8947	
15412	82.0478	72.9889	28.1407	38.9881	25.5078	
12253	82.0166	17.9676	4.2628	23.8982	22.7983	
25854	81.9127	35.6123	7.9702	50.3945	16.5373	
7395	81.9127	3223.9060	176.7481	3550.2689	741.6043	
1295	81.9023	49.4074	14.2289	75.3296	19.2455	
24033	81.9023	99.2837	18.7151	146.7463	37.6711	
15640	81.8087	96.0308	14.7136	142.3732	61.0904	
1596	81.7464	84.1073	5.6887	102.3077	17.1709	
15829	81.7256	178.6291	111.9201	49.6041	71.8434	
19388	81.7048	47.1590	13.9443	30.9755	45.9566	
23152	95.8940	1335.9175	118.1675	867.9193	203.9039	
3584	94.7505	14.2293	5.4921	60.6882	32.4469	
21713	93.2952	582.7896	69.9045	872.7586	176.6252	
15538	93.1393	536.0414	54.6891	365.6804	104.8045	

	EPIRUBICIN s): 6, 192 hrs	-	Atty. Re	ef. 44921-5090-01	-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
21229	93.0353	62.9916		27.1504	18.6457
2803	92.4116	97.1603		176.3510	50.7559
4782	92.2037			183.7873	47.7795
23437	91.7879	236.7137	41.3343	139.6025	71.4791
11173	91.5281	243.0114		535.3317	
14582	91.2682	127.6744	21.5199	224.2760	167.9921 70.2202
10115	91.2682	29.6057	13.6555	90.3885	
5982	90.9563	330.2865	56.5047	504.3480	44.5235 103.6195
24220	90.8004	75.6789	14.2419	48.9576	26.7107
23608	90.8004	504.9734	53.1811	370.6369	85.3745
17761	90.3326	628.0054	52.1838	454.0933	117.2960
22431	90.1767	43.1080	22.9255	110.5954	42.0717
4445	89.2412	496.0604	33.5495	649.1682	124.3616
11399	89.0852	86.8469	15.6233	155.1791	
6121	88.9293	21.1135	4.1346	11.2633	51.7814
18438	88.9293	634.1819	51.5064	470.5666	8.4403 122.5918
4285	88.6071	187.1363	42.6328	304.2508	62.9055
22451	88.5551	69.9633	16.1178	151.1270	
11585	88.5135	428.5571	54.5189	583.7686	54.6803
18890	88.5135	622.3692	39.7606	834.6452	113.3086
562	88.4615	351.8821	19.9393	443.1682	207.6526
2195	88.3992	37.4029	12.5528	12.5809	93.7766
11413	88.1497	41.8912	13.2820	116.6002	11.0479
6974	88.0457	465.5023	57.8721	672.4599	69.4703
10918	88.0353	249.3467	44.9415	394.0465	169.8077
10549	88.0249	76.7015	27.5227	25.7768	82.6490 13.2437
18162	87.9938	672.9671	157.9230	1379.7346	
22899	87.8794	99.8766	31.4158	44.2337	622.7619
2607	87.8378	210.1685	36.9080	309.7591	33.3480
16124	87.7235	349.2498	69.2475	230.5006	77.6187
4330	87.5260	291.9245	58.6099	457.8991	94.8320 140.3640
15959	87.5156	166.1477	35.3812	284.1650	
3650	87.2141	27.5894	7.3449	47.3570	68.3560
2146	87.1102	112.9026	7.9507	83.1270	16.8362 69.9111
9668	87.0374	294.4770	103.1179	104.9414	48.2427
13977	86.9543	324.9940	47.9945	473.8557	
5482	86.7879	131.7752	46.1137	262.4037	139.7205
22691	86.6944	610.5659	137.7533	925.4717	74.2493
17223	86.6840	1740.5481	162.7909	1385.7345	241.2703
11550	86.5800	53.8907	15.8747	24.7288	197.6986
8004	86.4865	51.9950	8.1689	33.3889	17.1509
26254	86.4345	62.2933	6.7403	43.5870	24.2458
24229	86.3306	40.4595	25.6329	102.7587	16.5093
19480	86.3202	1082.1691	173.5370	1683.1091	67.3230
8036	86.3098	134.7036	31.9390	73.2170	376.5196
9746	86.2786	152.0881	23.8073		22.4198
23313	86.1642	193.6157	31.1318	109.2433	62.9276
6691	86.1227	96.9943	24.9702	300.9419	73.0184
2708	86.1227	523.6743	46.8008	158.1074	51.5964
11017	86.0707	44.1708	21.1458	660.4570	128.0638
14430	86.0707	-4.2543	7.5839	104.5216	47.2598
2422	86.0707	131.8345	17.6804	23.7641	26.1542
		101.0040	17.0004	191.8780	69.0197

	EPIRUBICIN		Atty. Re	ef. 44921-5090-01	-WO/2105485
GLGC ID	s): 6, 192 hrs	Ina			·
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
665		655.9712	54.2070	561.4934	112.5356
5070		85.7730	10.6372	52.6396	36.2695
22711	85.9148	180.0290	22.1305	230.2369	47.3605
6522	85.9044	450.1290	145.1702	835.3920	230.1413
6502		159.2748	22.1170	232.6916	70.0673
17243	85.8628	207.4676	55.0211	347.7619	112.2982
6166	85.8524	165.8695	54.9624	322.5498	92.7068
7528	85.7588	95.4966	8.9508	63.3362	27.7343
7740	85.6965	416.2965	59.9352	299.4983	66.7080
3996	85.6445	87.6525	14.7965	59.6366	16.0125
13453	85.5509	201.6490	33.7731	300.0235	81.7371
4716	85.5405	170.1268	17.6057	125.1288	30.6648
21755	85.4990	438.1096	78.0876	628.7300	162.3387
4907	85.4990	136.2406	13.5281	173.5136	37.6766
22536	85.3950	710.5183	98.6998	1051.4300	301.1097
13181	85.3846	43.2573	10.9705	19.9964	14.0652
18439	85.3846	356.3238	37.3752	258.2394	67.8627
11445	85.3846	157.7293	42.6245	285.6630	83.7123

TABLE 5S: Timepoint(s	HYDRALAZIN	E (	Atty. F	Ref. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15087	98.7590	156.8356	5.1580	247.9661	<del></del>
1884	98.1903	212.7678	15.4227	146.8696	
17336	97.7766	38.8984	6.0547	15.5544	<u> </u>
13339	97.1562	621.0880		418.4784	<u> </u>
10544	97.0527	579.5536	26.8199		
25964	96.8976	10.3804	1.5050		
10248	96.8459	560.9118	75.9608		
20801	96.8459	124.0848	9.9768	78.3221	18.5023
17959	96.6908	196.1464	32.6060	103.5609	35.1979
1316	96.3806	194.5946	3.0724	220.5001	67.6819
15253	96.1737	213.1780	15.3416	108.2212	47.0196
21065	95.9152	64.0334	6.5672	32.7124	
21170	95.7084	23.4838	3.1293	4.4235	16.1799
4748	95.5016	80.0904	8.0144	44.1474	44.7732
15494	95.2430	30.1844	11.4627	1.2506	13.1609
8385	95.1913	65.6368	3.4862	120.7273	53.3853
22149	95.1913	102.1954	21.5573	44.6483	21.6509
19022	95.1913	166.9424	17.2286	106.2918	27.3335
1570	95.1913	188.7068	22.2973	128.2530	34.5486
4391	95.1913	964.1682	28.6948	748.8637	167.1622
692	95.1396	226.4920	31.5708	136.7682	35.6521
1048	94.9845	34.4978	1.3618	32.2165	23.4399
5758	94.8811	1126.7468	67.5204	729.5331	208.0611
5618	94.8811	20.6124	0.6174	16.1073	12.4939
18713	94.7777	337.1688	47.9403	221.5557	53.1969
25741	94.7777	316.6112	28.7189	204.9095	55.1017
23042	94.7777	168.7624	7.8811	106.7368	46.2615
25435	94.7260	4.4656	4.8069	40.9287	21.5174
13359	94.6743	67.3408	14.1570	20.7383	20.7125
17868	94.6743	223.1472	24.4925	136.4057	44.6227
23344	94.5191	312.8444	8.5720	258.7436	47.1229
17326	94.4674	103.0512	25.6833	42.3484	24.4297
15510	94.4157	193.4632	17.2712	281.2604	54.4386
1943	94.3640	106.5466	18.1488	62.4307	19.5604
15560	94.3640	19.8352	2.6627	38.4841	17.5475
23061	94.3123	50.6234	0.7799	56.6232	17.4678
1521	94.2606	133.3518	17.4480	68.3514	34.5064
18190	94.2606	104.4614	3.4337	142.4649	35.8774
1921	94.2089	130.4758	22.4579	81.5571	23.6977
23310	94.1572	121.0986	7.7792	79.1103	28.4253
945	93.9504	34.0030	9.4963	-12.4155	31.0088
18946	93.7435	30.7076	3.0945	13.8638	10.5136
24106	93.6401	48.1790	5.6697	27.1419	10.6941
21656	93.6401	20.8806	2.4819	39.6907	13.3864
18957	93.5367	785.0618	16.6500	913.2878	164.5502
23892	93.4850	63.0390	7.1285	43.9236	10.1395
20762	93.4333	69.1156	3.7502	91.5013	17.0914
15446	93.3816	425.6222	30.8100	303.8692	72.8527
18209	93.3299	123.0876	5.5037	88.5967	32.0752
22385	93.2782	234.0026	17.9207	148.7964	70.9091
18820	93.2265	88.4046	3.8870	94.9261	46.6153
17589	93.1748	23.0494	6.7302	6.2261	8.8905

TABLE 5S: Timepoint(s	HYDRALAZIN	E ;	Atty. F	Ref. 44921-5090-0	1-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16601	93.1748	14.8828	1.2193		12.947
1928	93.0714		10.0815		
17957	93.0196	100.3830	12.8643		
14066	92.9679	82.6706	2.6372		
436	92.8645	91.0144	12.4145		17.2789
16955	92.8645	351.1696	24.0086		180.897
727	92.8128	250.8246	5.8409	222.3852	33.1218
25711	92.7611	60.4372	5.8554	27.9624	21.9218
18043	92.7094	100.0874	16.5917	62.8439	21.7182
11152	92.6060	336.3804	36.5219	214.4555	89.4738
24283	92.5543	56.7636	4.8815	84.0133	26.7697
12848	92.4509	46.4060	9.3354	26.6783	13.1691
3900	92.4509	30.1638	6.7989	8.1642	13.2507
22407	92.3992	145.0898	36.4334	262.9633	69.4955
16342	92.3992	56.6232	6.2416	34.9010	12.4906
20714	92.3992	36.3614	2.6050	7.0023	32.3092
482	92.3475	41.2860	4.8405	109.9989	77.8782
25257	92.3475	103.9680	11.1885	70.6630	18.2516
20921	92.3475	89.1870	13.7751	49.6330	23.9242
17658	92.3475	20.4468	3.4186	41.4294	20.5741
20083	92.3475	13.0912	3.5158	40.5189	21.6018
3762	92.3475	60.4542	2.8419	42.2743	16.7555
1581	92.3475	381.3852	18.7110	297.2422	61.4305
23950	92.2958	81.2448	11.7875	58.9087	13.0678
17158	92.2958	692.2852	19.4813	744.8099	211.2131
16026	92.2441	237.9962	30.8417	158.0972	46.9047
21104	92.1923	175.6340	9.9545	126.3519	35.6131
20741	92.0889	195.6502	31.8691	123.0799	39.9077
19749	92.0889	62.3318	4.5405	42.0015	13.4042
11454	92.0889	258.2222	10.1641	210.0320	63.8915
5033	92.0889	758.2678	14.0368	683.2052	151.6138
11843	91.9855	89.5282	3.4154	73.9656	16.4826
21103	91.9338	382.6494	64.5228	269.4251	66.5565
25543	91.9338	35.7336	1.2476	40.1607	16.7910
20246	91.7787	27.9992	6.3133	46.1156	22.2777
11959	91.7270	37.8310	5.1631	65.3994	19.8840
13595	91.6236	124.2288	5.6409	96.4356	18.2726
25276	91.6236	-19.5760	13.2759	95.0678	96.0023
11455	91.6236	127.6180	11.4570	85.5654	31.9573
1920	91.5719	329.6462	22.8902	255.1135	63.6334
3929	91.5202	0.8188	6.1616	21.7883	12.2968
16663	91.5202	28.6692	1.1725	23.2420	10.2207
21905	91.4685	83.4162	1.6888	94.6712	16.8457
11709	91.4685	251.7840	16.1910	167.6742	56.0592
5257	91.4685	109.8050	7.3292	74.9256	23.9694
15980	91.4168	108.6496	9.3997	76.9870	21.0493
517	91.4168	63.0800	8.9266	102.9841	33.5337
1024	91.3650	30.9232	1.2299	44.3473	19.0074
8124	98.8625	95.3660	7.7097	40.2143	17.6130
15988	98.2937	558.6684	65.8687	241.6226	86.0058
14904	98.1903	112.3884	1.2288	83.6469	20.3510
19271	97.7766	513.5628	37.1821	301.9994	73.4440

TABLE 5S: "HYDRALAZINE Atty. Ref. 44921-5090-01-WO/2105485							
Timepoint(s							
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
23015	97.6215	153.2294	30.5337	77.7618	21.7425		
5007	97.5181	1227.9742	164.0440	736.2918			
23471	97.3113		51.5207	77.4026			
12398	97.3113	399.6760	9.1169	280.6130			
6828	97.1562	671.4382	59.8131	327.2167	123.5972		
17236	97.0010	778.2720	64.5047	428.0899	134.2179		
26075	97.0010		22.1006	1301.2541	323.3296		
14342	96.7425	59.0536	1.1919	83.3173	28.1826		
2788	96.6908		1.5378	223.5537	41.0819		
23673	96.6908	209.5468	7.9002	360.8423	128.9266		
21311	96.5874	252.0194	18.5667	173.1230	35.7047		
22677	96.5874	426.8144	74.5008	154.5159	88.3326		
3979	96.5874	116.0628	24.6605	49.4074	22.1134		
19082	96.4840	289.2080	11.0645	223.3971	34.5298		
6888	96.4323	1068.6526	93.9476	691.3709	176.1165		
3953	96.3806	201.1584	13.2141	118.9865	36.8447		
5953	96.3289	169.6634	17.2572	290.3810	71.8326		
8303	96.3289	92.3654	8.0782	50.7243	18.0310		
21973	96.3289	94.0224	1.4839	84.8166	31.2021		
2687	96.2771	62.2784	2.6128	100.0773	25.5429		
2042	96.1737	320.1662	58.4861	142.4172	69.3252		
23998	96.1220	83.0044	19.9299	37.4956	13.9322		

Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   Second   S	TABLE 5T: H Timepoint(s):	ydralazineCo	ore Tox Markers	Atty. R	ef. 44921-5090-0	1-WO/2105485
3601   99.2761   143.3200   14.3187   61.9043   21.668   13083   98.8625   49.1638   8.2301   9.7738   8.8761   15087   98.7690   156.6356   5.1580   247.9661   48.552   20735   98.7073   261.2344   24.8554   101.7244   47.4722   25567   98.6556   230.1810   33.0818   67.0123   33.9512   20734   98.3454   247.5826   38.2069   94.2223   46.8991   1884   98.1903   212.7678   15.4227   146.8696   33.4933   3430   98.1386   189.1080   13.1173   107.6677   28.9271   17336   97.7766   38.8984   6.0547   15.5544   7.628   19894   97.7249   446.0524   124.8800   189.3500   64.3565   13339   97.1562   621.0880   36.3859   418.4784   87.1565   10544   97.0527   579.5506   26.8199   430.2195   65.228   25964   96.8976   10.3804   1.5050   30.6700   83.5683   20801   96.8459   560.9118   75.9608   306.7006   83.5683   197.949   446.40.824   12.40.840   9.7686   78.3221   18.5023   1571   96.6391   314.9680   26.0216   190.4498   49.7559   96.6391   314.9680   26.0216   190.4498   49.7559   96.6391   314.9680   26.0216   190.4498   49.7974   22411   96.6391   183.1822   16.2164   92.2423   37.2974   244.99   96.3289   273.3598   7.2158   193.2721   80.4716   24.4749   96.3289   273.3598   7.2158   193.2721   80.4716   20.740   95.9152   96.6396   34.45.956   37.7552   207.3125   56.4910   20.740   95.9152   64.0334   6.5672   32.7124   67.723   10.4749   96.3289   273.3598   7.2158   193.2721   80.4716   20.740   95.9152   64.0334   6.5672   32.7124   67.723   10.4716   95.7934   34.5576   37.7552   207.3125   56.4910   20.740   95.9152   64.0334   6.5672   32.7124   67.723   20.5001   76.6819   20.740   95.9152   760.6848   98.8353   44.9457   143.1811   20.666   95.9152   64.0334   6.5672   32.7124   67.723   20.470   95.9152   64.0334   6.5672   32.7124   67.723   20.740   95.9152   760.6848   98.8353   44.9867   143.1811   20.666   95.9152   64.0334   6.5672   32.7124   67.723   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855   33.855	GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
13083   98.8625   49.1638   8.2301   9.7738   8.876	3601	99.2761	143.3200	14.3187	<del></del>	
15087   98.7590   156.8356   5.1880   247.9661   48.5522   20735   98.7073   261.2344   24.8554   101.7244   47.4726   25567   98.6556   230.1810   33.0818   67.0123   33.9511   20734   98.3454   247.5826   38.2069   94.2223   46.8991   34.804   98.1930   212.7678   15.4227   146.8969   33.4933   3430   98.1386   189.1080   13.1173   107.6670   28.9277   17336   97.7766   38.8984   6.0547   15.5544   7.6286   19894   97.7249   446.0524   124.8880   189.3509   64.3562   13339   97.1562   621.0880   36.3859   418.4784   87.1565   10544   97.0527   579.5536   26.8199   430.2195   65.2286   25964   96.8976   10.3804   1.5050   30.7610   28.7726   22.9040   96.8976   10.3804   1.5050   30.7610   28.7726   22.9040   96.8459   124.0848   9.9768   78.3221   18.5023   1571   96.8459   124.0848   9.9768   78.3221   18.5023   17959   96.6908   196.1464   32.6060   103.5609   35.1693   25.3799   96.6391   314.9680   26.0216   190.4498   49.6170   22411   96.6391   183.1822   16.2164   92.2423   37.2974   4749   96.3289   273.3598   7.2158   198.2721   80.4716   23419   96.2771   347.5576   37.7552   207.3125   56.4910   23419   96.2771   347.5576   37.7552   207.3125   56.4910   20740   95.9152   760.8048   98.8353   449.8457   143.1811   16.5253   96.1737   213.1780   15.3416   108.2212   47.0166   95.9152   64.0334   6.5672   32.7124   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.1799   95.9152   64.0334   6.5672   32.7124   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.1799   47.898   95.5016   80.0904   8.0144   44.1474   44.1474   44.1732   21170   95.7084   23.4838   3.1293   4.4235   16.1799   95.9151   16.69424   17.2286   106.2918   27.3385   25.449   95.1913   166.9424   17.2286   106.2918   27.3385   25.449   95.1913   166.9424   17.2286   106.2918   27.3385   25.4490   30.1844   11.4627   1.2566   13.1609   34.5669   34.5669   34.5669   34.5669   34.5669   34.5669   34.566		98.8625	49.1638	8.2301		
20735 98.7073 261.2344 24.8554 101.7244 47.4722 25567 98.6556 230.1810 33.0818 67.0123 33.5512 20734 98.3454 247.5826 38.2069 94.2223 46.8899 1884 98.1903 212.7678 15.4227 146.8696 33.4933 3430 98.1386 189.1080 131.1173 107.6670 28.9277 17336 97.7766 38.8984 6.0547 15.5544 7.6285 19894 97.7249 446.0524 124.8880 189.3509 64.3562 13339 97.1562 621.0880 36.3859 418.4784 87.1565 10544 97.0527 579.5536 26.8199 430.2195 65.2285 25964 96.8976 10.3804 1.5050 30.7610 28.7726 10248 96.8459 560.9118 75.9608 306.7008 83.5683 20801 96.8459 124.0848 9.9768 78.3221 18.5023 1571 96.8459 290.1124 33.2546 172.0863 56.3285 1571 96.6391 314.9680 26.0216 190.4498 49.6170 22411 96.6391 183.1822 16.2164 92.2423 37.2974 1316 96.3806 194.5946 30.724 220.5001 67.6819 4749 96.3289 273.3598 7.2156 198.2721 80.4716 23419 96.2771 347.5576 37.7552 207.3125 56.4910 24740 95.9152 780.8648 98.835 449.8457 143.1811 20740 95.9152 780.8648 98.835 449.8457 143.1811 21065 95.9152 64.0334 6.5672 32.7124 16.7123 21170 95.7084 23.3838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4838 3.1293 4.4235 16.1799 95.7094 23.4839 24.9909 5.55107 95.1913 166.9424 1.72266 106.2918 27.7335 1890 94.6743 66.4682 28.6948 74.86837 16.71622 1479 95.1913 166.942	15087	98.7590	156.8356	5.1580		
25567 98.6556 230.1810 33.0818 67.0123 33.9512 20734 98.3454 247.5826 38.2069 94.2223 46.8891 1884 98.1903 212.7678 15.4227 146.8696 33.4933 3430 98.1386 189.1980 13.1173 107.6670 28.927. 17336 97.7766 38.8984 6.0547 15.5544 7.6285 19894 97.7249 446.0524 124.8880 189.3509 64.3562 13339 97.1562 621.0880 36.3859 418.4784 87.1565 10544 97.0527 579.5536 26.8199 430.2195 65.2285 25964 96.8976 10.3804 15.0505 30.7610 28.7726 10248 96.8459 560.9118 75.9608 306.7008 35.6632 20801 96.8459 124.0848 9.9768 76.3221 18.5023 17579 96.6908 196.1464 32.6060 103.5609 35.1979 25379 96.6391 314.9680 26.0216 190.4498 49.6170 22411 96.6391 183.1822 16.2164 92.2423 37.2974 1316 96.3866 194.5946 3.0724 220.5001 67.6810 4749 96.3289 273.3598 7.2158 198.2721 60.4716 23419 96.2771 347.5576 37.7552 207.3125 56.4910 20740 95.9152 780.8648 98.353 449.8457 143.1811 21065 95.9152 780.8648 98.353 449.8457 143.1811 210740 95.7084 23.4838 3.1293 4.4235 16.1799 18897 95.6964 23.4838 3.1293 4.4235 16.1799 189.6964 23.4838 3.1293 4.4235 16.1799 189.6979 36.6988 1737 213.1780 15.3416 108.2212 47.0196 20740 95.9152 780.8648 98.353 449.8457 143.1811 21065 95.9152 780.8648 98.353 449.8457 143.1811 21170 95.7084 23.4838 3.1293 4.4235 16.1799 18897 95.6964 23.4838 3.1293 4.4235 16.1799 189.913 102.1954 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2918 27.3358 1570 95.1913 166.9424 17.2286 106.2		98.7073	261.2344			
20734         98.3454         247.5826         38.2069         94.2223         46.8991           1884         98.1930         212.7678         15.4227         146.8996         33.493           3430         98.1386         189.1080         13.1173         107.6670         32.9271           17336         97.7766         38.8984         6.0547         15.5544         7.6288           19894         97.7249         446.0524         124.8880         189.3509         64.3562           13339         97.1562         621.0880         36.3859         418.4784         87.1565           10544         97.0527         579.5536         26.8199         430.2195         552.286           25964         96.8459         560.9118         75.9608         306.7008         83.5683           20801         96.8459         124.0848         9.9768         78.3221         18.5023           1571         96.8459         124.0848         9.9768         78.3221         18.5033           17959         96.6908         196.1464         32.6060         103.5609         35.1979           25379         96.6391         314.9680         26.0216         190.4498         49.6170           22411 </td <td>25567</td> <td>98.6556</td> <td>230.1810</td> <td></td> <td></td> <td></td>	25567	98.6556	230.1810			
1884 98.1903 212.7678 15.4227 146.8696 33.4932 3430 98.1386 189.1080 13.1173 107.6670 28.9271 17336 97.7766 38.8984 6.0547 15.5544 7.6288 19894 97.7249 446.0524 124.8880 189.3509 64.3565 13339 97.1562 621.0880 36.3859 418.4784 87.1565 10544 97.0527 579.5536 26.8199 430.2195 65.2285 25964 96.8976 10.3804 1.5050 30.7610 28.7722 10248 96.8459 560.9118 75.9608 306.7008 83.5683 20801 96.8459 124.0848 9.9768 76.3221 18.5023 1571 96.8459 290.1124 33.2546 172.0863 53.6333 17959 96.6908 196.1464 32.6060 103.5609 35.6333 17959 96.6939 1314.9680 26.0216 190.4498 49.6170 22411 96.6391 183.1822 16.2164 92.2423 37.2974 1316 96.3806 194.5946 30.724 220.5001 67.6819 4749 96.3289 273.3598 7.2158 198.2721 80.4716 23419 96.2771 347.5576 37.7552 207.3125 56.4910 20740 95.9152 780.8648 98.8353 449.8457 143.1811 21065 95.9152 780.8648 98.8353 449.8457 143.1811 21065 95.9152 780.8648 31.293 44.233 44.235 16.179 18897 95.5066 80.094 80.1444 44.1474 44.7732 21170 95.7084 23.4838 3.1293 4.4235 16.179 18897 95.5016 80.0904 8.0144 44.1474 44.7732 21170 95.7084 23.4838 3.1293 4.4235 16.179 18897 95.5916 80.0904 8.0144 44.1474 44.7732 21170 95.7084 23.4838 3.1293 4.4235 16.179 1899 95.1913 166.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1570 95.1913 168.9424 17.2286 106.2918 27.3335 1571 94.8811 102.1954 27.5573 44.683 27.124 16.7162 1948 94.8811 126.7468 67.5204 72.95331 208.0611 1948 94.8811 20.6124 21.5573 44.683 22.25507 12.2650 13.1609 18713 94.7777 316.6112 28.7189 204.9095 55.1017 23042 94.7777 136.6112 28.7189 204.9095 55.1017 23042 94.7777 168.7624 7.8811 106.7388 46.2251 17.4689 94.6743 223.1472 24.4925 136.6009 40.9287 21.5174 19359 94.6743 67.3408 44.1570 20.7383 20.7125 17868 94.6743 67.3408 44.1570 20.7383 20.7125 178		98.3454	247.5826			
3430   98.1386   189.1080   13.1173   107.6670   28.9271   17336   97.7766   38.8984   6.0547   15.5544   7.6288   19894   97.7249   446.0524   124.8880   189.3509   63.3562   13339   97.1562   621.0880   36.3859   418.4784   87.1565   10544   97.0527   579.5536   26.8199   430.2195   65.2286   10.880   96.8976   10.3804   1.5050   30.7610   28.7726   10248   96.8459   560.9118   75.9608   306.7008   83.5683   20801   96.8459   124.0848   9.9768   78.3221   18.5023   1571   96.8459   290.1124   33.2546   172.0863   53.6338   17959   96.6908   196.1464   32.6060   103.5609   35.1979   96.6391   314.9680   26.0216   190.4498   49.6170   22411   96.6391   183.1822   16.2164   92.2423   37.2974   1316   96.3806   194.5946   3.0724   220.5001   67.6819   4749   96.3289   273.3598   7.2158   198.2721   80.4716   22449   96.2389   273.3598   7.2158   198.2721   80.4716   20740   95.9152   780.8648   98.853   34.9857   34.9857   35.6703   34.9869   95.9152   64.0334   6.5672   32.7124   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.1793   18897   95.5667   66.4808   4.7508   44.4474   44.7732   2149   95.1913   160.0944   8.0144   44.1474   44.7732   2149   95.1913   160.0944   8.0144   44.1474   44.7732   21479   95.7084   23.4838   3.1293   4.4235   16.1799   18897   95.5667   66.4808   4.7508   159.2470   47.9559   159.152   64.0334   6.5672   32.7124   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.1799   18897   95.5667   66.4808   4.7508   159.2470   47.9556   17.9196   18.9096   17.91913   160.944   8.0144   44.1474   44.7732   15494   95.2430   30.1844   11.4627   1.2506   13.1609   19.022   95.1913   160.944   21.5573   44.6483   21.6509   19.022   95.1913   160.944   8.0144   44.1474   44.7732   19.022   95.1913   160.944   8.0144   44.1474   44.7732   19.022   95.1913   160.944   8.0144   44.1474   44.7732   19.022   95.1913   160.944   8.0144   44.1474   44.7732   19.022   95.1913   160.944   8.0144   44.1474   44.7732   19.022   95.1913   160.944   8.0144   4.1474   4.7732   1.54			212.7678			
17336 97.7766 38.8984 6.0547 15.5544 7.628 19894 97.7249 446.0524 124.8880 189.3509 64.3562 13339 97.1562 621.0880 36.3859 418.4784 87.1565 10544 97.0527 579.5536 26.8199 430.2195 65.2285 25964 96.8976 10.3804 1.5050 30.7610 28.7755 10248 96.8459 560.9118 75.9608 306.7008 33.5683 20801 96.8459 124.0848 9.9768 78.3221 18.5023 1571 96.8459 290.1124 33.2546 172.0863 53.6339 17959 96.6908 196.1464 32.6060 103.5609 35.1978 25379 96.6391 314.9680 26.0216 190.4498 49.6170 22411 96.6391 183.1822 16.2164 92.2423 37.2974 1316 96.3806 194.5946 3.0724 220.5001 67.6819 4749 96.3289 273.3598 7.2158 198.2721 80.4716 23419 96.2771 347.5576 37.7552 207.3125 64.910 15253 96.1737 213.1780 15.3416 108.2212 47.0196 20740 95.9152 780.8648 98.8353 449.8457 143.1811 21065 95.9152 64.0334 6.5672 32.7124 13.1819 22740 95.7084 23.4838 3.1293 4.4235 16.1793 18897 95.6667 66.4808 4.7508 159.2470 64.7550 4748 95.5016 80.0904 8.0144 44.1474 44.7732 21170 95.7084 23.4838 3.1293 4.4235 16.1793 18897 95.6667 66.4808 4.7508 159.2470 64.7550 15494 95.2430 30.1844 11.4627 1.2506 13.1609 18938 95.9151 188.0904 8.0144 44.1474 44.7732 2149 95.1913 102.1954 21.5573 44.6483 21.6509 19022 95.1913 166.9424 17.2266 106.2918 27.3355 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1570 95.1913 166.9424 17.2266 106.2918 27.3335 1571 94.47777 316.6112 28.7189 204.9095 55.1017 24449 94.7777 136.6612 28.7189 204.9095 55.1017 25741 94.7777 136.6612 28.7189 204.9095 55.1017 25741 94.7777 168.7624 7.8811 106.7368 46.623 15.6199 25741 94.7777 168.7624 7.8811 106.7368 46.2215.1744 194.94594 34.4464 85.720 25.8448 42.4297 13359 94.6743 62.33.4448 8.5720 25.87436 47.1229 13369 94.6743 62.33.444 8.5720 25.87436 47.1229 13369 94.4674 103.0512 25.6833 42.3484 14.4297 14369 94.4674 103.0512 25.68		98.1386	189.1080	13.1173		
19894 97.7249 446.0524 124.8880 189.3509 64.3562 10534 97.0527 579.5536 26.8199 430.2195 65.2285 25964 96.8976 10.3804 1.5050 30.7610 28.7726 25964 96.8976 10.3804 1.5050 30.7610 28.7726 20801 96.8459 560.9118 75.9608 306.7008 83.5683 20801 96.8459 124.0848 9.9768 78.3221 18.5023 1571 96.8459 290.1124 33.2546 172.0863 53.6339 17959 96.6908 196.1464 32.6060 103.5609 35.1979 25379 96.6391 314.9680 26.0216 190.4498 49.6170 22411 96.6391 183.1822 16.2164 92.2423 37.2974 1316 96.3806 194.5946 30.724 220.5001 67.6819 4749 96.3289 273.3598 7.2158 198.2721 80.4716 23419 96.2771 347.5576 37.7552 207.3125 56.4910 15253 96.1737 213.1780 15.3416 108.2212 47.0196 20740 95.9152 780.8648 98.8353 449.8457 143.1812 21105 95.0162 64.0334 6.5672 32.7124 16.7123 21170 95.7084 23.4838 3.1293 4.4235 16.1799 18897 95.6567 66.4808 4.7508 159.2470 64.7550 4748 95.5016 80.0904 8.0144 44.1474 44.7732 1549 95.1913 66.6368 3.4862 120.7273 53.3853 22149 95.1913 66.6368 3.4862 120.7273 53.3853 22149 95.1913 162.1954 21.5573 44.6493 21.6509 19022 95.1913 168.0904 8.0144 44.1474 44.7732 1569 95.1913 166.9424 17.2286 106.2918 27.3351 1570 95.1913 168.0904 8.0144 44.1474 44.7732 1569 95.1913 166.6368 3.4862 120.7273 53.3853 22149 95.1913 166.6368 3.4862 120.7273 53.3853 22149 95.1913 166.9424 17.2286 106.2918 27.3335 1570 95.1913 168.0904 8.0144 16.1073 12.4939 1871 94.9845 34.4978 1.3618 32.2165 23.4399 1871 95.1913 166.9424 17.2286 106.2918 27.3335 1570 95.1913 168.0668 22.2973 128.2530 34.5486 15618 94.8811 126.7468 67.5204 729.5331 208.0611 1689 94.9845 34.4978 1.3618 32.2165 23.4399 15768 94.8811 126.7468 67.5204 729.5331 208.0611 16922 95.1939 166.6424 0.6174 16.1073 12.4939 18713 94.7777 316.6112 28.7189 204.9095 55.1017 13359 94.6743 67.3408 14.1570 20.7383 20.7125 1568 94.8811 116.67468 67.5204 729.5331 208.0611 17468 94.6743 67.3408 14.1570 20.7383 20.7125 17468 94.6743 67.3408 14.1570 20.7383 20.7125 17468 94.6743 67.3408 14.1570 20.7383 20.7125 17468 94.6743 67.3408 14.1570 20.7383 20.7125 17489 94.6743 67.3408 14.1570 20.7383 20.712			38.8984	6.0547		
13339		97.7249	446.0524	124.8880		
10544		97.1562	621.0880	36.3859		
25964         96.8976         10.3804         1.5050         30.7610         28.7726           10248         96.8459         560.9118         75.9608         306.7008         83.5663           20801         96.8459         124.0848         9.9768         78.3221         18.5023           1571         96.8459         290.1124         33.2546         172.0863         53.6339           17959         96.6908         196.1464         32.6060         103.5609         35.1979           25379         96.6391         314.9680         26.0216         190.4498         49.6170           22411         96.6391         183.1822         16.2164         92.2423         37.2974           1316         96.3806         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170 <td></td> <td>97.0527</td> <td>579.5536</td> <td>26.8199</td> <td></td> <td></td>		97.0527	579.5536	26.8199		
10248		96.8976	10.3804	1.5050		
20801   96.8459   124.0848   9.9768   78.3221   18.5023   1571   96.8859   290.1124   33.2546   172.0863   53.6338   17959   96.6908   196.1464   32.6060   103.5609   35.1979   25379   96.6391   314.9680   26.0216   190.4498   49.6170   22411   96.6391   183.1822   16.2164   92.2423   37.2974   1316   96.3806   194.5946   3.0724   220.5001   67.6819   4749   96.3289   273.3598   7.2158   198.2721   80.4716   23419   96.2771   347.5576   37.7552   207.3125   56.4910   15253   96.1737   213.1780   15.3416   108.2212   47.0196   20740   95.9152   780.8648   98.8353   449.8457   431.811   21065   95.9152   64.0334   6.5672   32.7124   16.7123   21170   95.7084   23.4838   3.1293   4.4235   16.1799   18897   95.6567   66.4808   4.7508   159.2470   64.7550   4.7548   95.5016   80.0904   8.0144   44.1474   44.7732   15494   95.2430   30.1844   11.4627   1.2506   13.1609   8385   95.1913   65.6368   3.4862   120.7273   53.3853   22149   95.1913   102.1954   21.5573   44.6483   21.6509   295.1913   166.9424   17.2286   106.2918   27.3335   1570   95.1913   188.7068   22.2973   128.2530   34.5486   4391   95.1913   964.1682   28.6948   748.8637   167.1622   692   95.1913   188.7068   22.2973   128.2530   34.5486   4391   95.1913   964.1682   28.6948   748.8637   167.1622   692   95.1913   186.9424   17.2286   106.2918   27.3335   1570   95.1913   188.7068   22.2973   128.2530   34.5486   4391   95.1913   964.1682   28.6948   748.8637   167.1622   692   95.1396   226.4920   31.5708   136.7682   35.6521   1048   94.9845   34.4978   1.3618   32.2165   23.4399   5758   94.8811   126.7468   67.5204   729.5331   208.0611   5618   94.8811   126.7468   67.5204   729.5331   208.0611   5618   94.8811   20.6124   0.6174   16.1073   12.4939   5758   94.8811   126.7468   67.5204   729.5331   208.0611   5618   94.8811   20.6124   0.6174   16.1073   12.4939   5758   94.8717   168.7624   7.8811   106.7368   46.2615   24.4925   136.4057   44.6227   1031   94.6225   110.6578   6.0793   73.9500   19.861   17.666   94.6743   223.1472   24	10248	96.8459	560.9118	75.9608		
1571         96.8459         290.1124         33.2546         172.0863         53.6339           17959         96.6908         196.1464         32.6060         103.5609         35.1979           25379         96.6391         314.9680         26.0216         190.4498         49.6170           22411         96.6391         183.1822         16.2164         92.2423         37.2974           1316         96.3806         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748	20801	96.8459	124.0848			
17959         96.6391         314.9680         26.0216         190.4498         49.6170           25379         96.6391         314.9680         26.0216         190.4498         49.6170           22411         96.6391         183.1822         16.2164         92.2423         37.2974           1316         96.3806         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.793           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.2016         80.0904         8.0144         44.1474         44.7732           15494		96.8459				
25379         96.6391         314.9680         26.0216         190.4498         49.6170           22411         96.6391         183.1822         16.2164         92.2423         37.2974           1316         96.3806         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         349.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385	17959	96.6908				
22411         96.6391         183.1622         16.2164         92.2423         37.2974           1316         96.3806         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3653           22149	25379	96.6391				
1316         96.3866         194.5946         3.0724         220.5001         67.6819           4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6557         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         166.9424         17.2286         106.2918         27.3355           1902         95.1913         166.9424         17.286         106.2918         27.335           1570	22411	96.6391				
4749         96.3289         273.3598         7.2158         198.2721         80.4716           23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.174         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         165.6368         3.4862         120.7273         53.3853           22149         95.1913         166.9424         17.2286         106.2918         27.3355           1570         95.1913         188.7063         22.2973         128.2530         34.5486           4391	1316	96.3806	194.5946			
23419         96.2771         347.5576         37.7552         207.3125         56.4910           15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         66.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         186.9424         17.2286         106.2918         27.335           1570         95.1913         186.7068         22.973         128.2530         34.5486           4391	4749	96.3289	273.3598			
15253         96.1737         213.1780         15.3416         108.2212         47.0196           20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         186.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692		96.2771	347.5576			
20740         95.9152         780.8648         98.8353         449.8457         143.1811           21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.7199           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048	15253	96.1737				
21065         95.9152         64.0334         6.5672         32.7124         16.7123           21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1996         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758	20740	95.9152				
21170         95.7084         23.4838         3.1293         4.4235         16.1799           18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         126.7468         67.5204         729.5331         208.0611           5618 <t< td=""><td></td><td>95.9152</td><td>64.0334</td><td></td><td></td><td></td></t<>		95.9152	64.0334			
18897         95.6567         66.4808         4.7508         159.2470         64.7550           4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           25741		95.7084				
4748         95.5016         80.0904         8.0144         44.1474         44.7732           15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741	18897	95.6567	66.4808			
15494         95.2430         30.1844         11.4627         1.2506         13.1609           8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         168.7624         7.8811         106.7368         46.2615           25435		95.5016	80.0904			
8385         95.1913         65.6368         3.4862         120.7273         53.3853           22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435		95.2430	30.1844			
22149         95.1913         102.1954         21.5573         44.6483         21.6509           19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.6743         67.3408         14.1570         20.7383         20.7125           17868 <td></td> <td>95.1913</td> <td>65.6368</td> <td></td> <td></td> <td></td>		95.1913	65.6368			
19022         95.1913         166.9424         17.2286         106.2918         27.3335           1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868	22149	95.1913	102.1954			
1570         95.1913         188.7068         22.2973         128.2530         34.5486           4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031	19022	95.1913	166.9424			
4391         95.1913         964.1682         28.6948         748.8637         167.1622           692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468	1570	95.1913	188.7068			
692         95.1396         226.4920         31.5708         136.7682         35.6521           1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.5191         312.8444         8.5720         258.7436         47.1229           17326	4391	95.1913	964.1682			
1048         94.9845         34.4978         1.3618         32.2165         23.4399           5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326	692	95.1396	226.4920			
5758         94.8811         1126.7468         67.5204         729.5331         208.0611           5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510	1048	94.9845				
5618         94.8811         20.6124         0.6174         16.1073         12.4939           18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943	5758	94.8811	1126.7468			
18713         94.7777         337.1688         47.9403         221.5557         53.1969           25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560	5618	94.8811	20.6124			
25741         94.7777         316.6112         28.7189         204.9095         55.1017           23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	18713	94.7777	337.1688			
23042         94.7777         168.7624         7.8811         106.7368         46.2615           25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475		94.7777	316.6112			
25435         94.7260         4.4656         4.8069         40.9287         21.5174           13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	23042	94.7777	168.7624			
13359         94.6743         67.3408         14.1570         20.7383         20.7125           17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	25435	94.7260				
17868         94.6743         223.1472         24.4925         136.4057         44.6227           1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	13359	94.6743				
1031         94.6225         110.6578         6.0793         73.9500         19.1861           17468         94.6225         41.4512         2.5169         59.0650         10.9062           23344         94.5191         312.8444         8.5720         258.7436         47.1229           17326         94.4674         103.0512         25.6833         42.3484         24.4297           15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	17868	94.6743	223.1472			
17468     94.6225     41.4512     2.5169     59.0650     10.9062       23344     94.5191     312.8444     8.5720     258.7436     47.1229       17326     94.4674     103.0512     25.6833     42.3484     24.4297       15510     94.4157     193.4632     17.2712     281.2604     54.4386       1943     94.3640     106.5466     18.1488     62.4307     19.5604       15560     94.3640     19.8352     2.6627     38.4841     17.5475	1031	94.6225				
23344     94.5191     312.8444     8.5720     258.7436     47.1229       17326     94.4674     103.0512     25.6833     42.3484     24.4297       15510     94.4157     193.4632     17.2712     281.2604     54.4386       1943     94.3640     106.5466     18.1488     62.4307     19.5604       15560     94.3640     19.8352     2.6627     38.4841     17.5475	17468					
17326     94.4674     103.0512     25.6833     42.3484     24.4297       15510     94.4157     193.4632     17.2712     281.2604     54.4386       1943     94.3640     106.5466     18.1488     62.4307     19.5604       15560     94.3640     19.8352     2.6627     38.4841     17.5475	23344	94.5191				
15510         94.4157         193.4632         17.2712         281.2604         54.4386           1943         94.3640         106.5466         18.1488         62.4307         19.5604           15560         94.3640         19.8352         2.6627         38.4841         17.5475	17326					
1943     94.3640     106.5466     18.1488     62.4307     19.5604       15560     94.3640     19.8352     2.6627     38.4841     17.5475	15510					
15560 94.3640 19.8352 2.6627 38.4841 17.5475						
23064 04 2422 50 2004 2.0027 00.4041 17.0470	15560					
~~~~ 56 6232	23061	94.3123	50.6234	0.7799	56.6232	17.4678

Timepoint(s):	6 hrs	re Tox Markers	4	tef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1521	94.2606			68.3514	34.5064
18190	94.2606		3.4337	142.4649	35.8774
13420	94.2089	643.8456	55.5188	449.4092	100.5780
1921	94.2089	130.4758	22.4579	81.5571	23.6977
23310	94.1572	121.0986	7.7792	79.1103	28.4253
945	93.9504	34.0030	9.4963	-12.4155	31.0088
18946	93.7435	30.7076	3.0945	13.8638	10.5136
24106	93.6401	48.1790	5.6697	27.1419	10.6941
21656	93.6401	20.8806	2.4819	39.6907	13.3864
18957	93.5367	785.0618	16.6500	913.2878	164.5502
23892	93.4850	63.0390	7.1285	43.9236	10.1395
20762	93.4333	69.1156	3.7502	91.5013	17.0914
15446	93.3816	425.6222	30.8100	303.8692	72.8527
18209	93.3299	123.0876	5.5037	88.5967	32.0752
22385	93.2782	234.0026	17.9207	148.7964	70.9091
18820	93.2265	88.4046	3.8870	94.9261	46.6153
17589	93.1748	23.0494	6.7302	6.2261	
16601	93.1748	14.8828	1.2193	27.1258	8.8905 12.9479
1928	93.0714	612.9376	10.0815	573.3866	132.1135
17957	93.0196	100.3830	12.8643	66.2742	
14066	92.9679	82.6706	2.6372	111.0196	17.5071
436	92.8645	91.0144	12.4145	58.2971	31.3767
16955	92.8645	351.1696	24.0086		17.2789
727	92.8128	250.8246	5.8409	534.1851	180.8971
25711	92.7611	60.4372	5.8554	222.3852	33.1218
18043	92.7094	100.0874	16.5917	27.9624	21.9218
11152	92.6060	336.3804	36.5219	62.8439	21.7182
24283	92.5543	56.7636	4.8815	214.4555	89.4738
12848	92.4509	46.4060	9.3354	84.0133	26.7697
3900	92.4509	30.1638		26.6783	13.1691
22407	92.3992	145.0898	6.7989	8.1642	13.2507
16342	92.3992	56.6232	36.4334	262.9633	69.4955
20714	92.3992		6.2416	34.9010	12.4906
482	92.3475	36.3614	2.6050	7.0023	32.3092
25257	92.3475	41.2860	4.8405	109.9989	77.8782
20921	92.3475	103.9680	11.1885	70.6630	18.2516
17658	92.3475	89.1870	13.7751	49.6330	23.9242
20083	92.3475	20.4468	3.4186	41.4294	20.5741
3762	92.3475	13.0912	3.5158	40.5189	21.6018
1581		60.4542	2.8419	42.2743	16.7555
23950	92.3475	381.3852	18.7110	297.2422	61.4305
17158	92.2958	81.2448	11.7875	58.9087	13.0678
	92.2958	692.2852	19.4813	744.8099	211.2131
16026	92.2441	237.9962	30.8417	158.0972	46.9047
21104	92.1923	175.6340	9.9545	126.3519	35.6131
20741	92.0889	195.6502	31.8691	123.0799	39.9077
19749	92.0889	62.3318	4.5405	42.0015	13.4042
11454	92.0889	258.2222	10.1641	210.0320	63.8915
5033	92.0889	758.2678	14.0368	683.2052	151.6138
21351	99.4829	80.6988	6.2490	12.1389	20.9160
11728	99.3278	753.1340	68.6619	380.7892	93.2638
9551	99.2761	796.8730	49.0184	498.5805	85.2638
13270	99.1727	476.3998	65.5985	163.7858	60.4464

Timepoint(s): 6 hrs GLGC ID LDA Score Mean Tox SD Tox Mean Nontox 6548 98.8625 694.7628 100.4281 213.2618	
6548 98.8625 694.7628 100.4281 213.2618	SD Nontox
	77.0934
8124 98.8625 95.3660 7.7097 40.2143	
2416 98.7590 501.2280 5.6277 346.1962	87.9370
6562 98.7073 47.5550 3.1216 81.4447	17.6739
5258 98.7073 664.1520 45.8208 402.7573	
15885 98.6556 280.7466 25.1179 145.7606	
8745 98.6556 215.8620 38.9721 107.9325	
7299 98.6039 773.1158 120.8460 251.5905	
11726 98.5005 533.5082 40.5515 286.8237	89.8029
11727 98.5005 604.3898 48.0730 319.2727	85.6607
22464 98.5005 278.9364 40.1997 124.1771	46.7906
5129 98.4488 169.9756 12.3029 86.1985	28.2466
23035 98.3971 245.7036 21.6546 123.3464	34.7819
15988 98.2937 558.6684 65.8687 241.6226	
5292 98.2420 376.7596 113.5796 91.9099	
14904 98.1903 112.3884 1.2288 83.6469	
12303 98.1903 112.7144 15.4871 28.6056	
3050 98.0869 228.8394 38.5682 88.4676	
15841 98.0352 85.1580 5.2567 50.2158	
23110 98.0352 344.7718 15.4324 210.0800	
2378 97.9835 129.8426 19.3748 56.7000	19.6457
6936 97.9317 198.0056 27.9364 98.0114	30.9212
22614 97.8800 156.9550 73.5855 45.3235	
3003 97.8283 417.5536 106.1557 70.3467	60.2634
19271 97.7766 513.5628 37.1821 301.9994	
15212 97.6732 116.1712 20.9712 56.5987	40.6347
23015 97.6215 153.2294 30.5337 77.7618	21.7425
7867 97.6215 248.1136 37.4367 97.2828	44.8662
13966 97.5698 194.0216 33.4736 104.6886	27.0718
7615 97.5698 91.9202 11.3562 29.7933	25.0687
8495 97.5698 192.2230 8.3247 131.8170	
5007 97.5181 1227.9742 164.0440 736.2918	160.4563
11331 97.4147 140.2186 14.3519 87.0803	18.9431
14955 97.4147 181.0944 80.5659 -178.9106	195.8687
3941 97.3630 380.7426 47.4343 180.8175	67.4454
23471 97.3113 189.1040 51.5207 77.4026	
12398 97.3113 399.6760 9.1169 280.6130	66.7741
7220 97.2596 51.8602 0.7886 76.1486	29.3080
6560 97.1562 432.4062 30.2947 282.7162	57.5640
6828 97.1562 671.4382 59.8131 327.2167	123.5972
17903 97.1044 244.5414 29.1343 137.7887	38.4653
9658 97.1044 244.7306 62.7510 99.7752	47.9401
17236 97.0010 778.2720 64.5047 428.0899	134.2179
5531 97.0010 172.8490 10.8200 102.8946	29.5049
3049 97.0010 498.4446 86.8179 249.9030	136.4987
	323.3296
26075 97.0010 924.5460 22.1006 1301.2541	64.3866
22958 96.8976 375.6922 31.5155 232.9499	
22958 96.8976 375.6922 31.5155 232.9499	42.5031
22958 96.8976 375.6922 31.5155 232.9499 6094 96.7942 223.6600 29.8316 112.4906	
22958 96.8976 375.6922 31.5155 232.9499 6094 96.7942 223.6600 29.8316 112.4906 23230 96.7425 162.8192 9.7664 252.2847	53.4630
22958 96.8976 375.6922 31.5155 232.9499 6094 96.7942 223.6600 29.8316 112.4906 23230 96.7425 162.8192 9.7664 252.2847	

TABLE 5T: HydralazineCore Tox Markers Atty. Ref. 44921-5090-01-WO/21054 Timepoint(s): 6 hrs					
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23673	96.6908	209.5468	7.9002	360.8423	
13029	96.5874	435.5570	85.3821	201.6063	
21311	96.5874	252.0194	18.5667	173.1230	
22677	96.5874	426.8144	74.5008	154.5159	
3979	96.5874	116.0628	24.6605	49.4074	22.1134
22666	96.5357	125.0378	7.3520	78.9438	
3615	96.4840	575.8332	43.2667	305.7159	
19082	96.4840	289.2080	11.0645	223.3971	34.5298
6888	96.4323	1068.6526	93.9476	691.3709	176.1165
12098	96.3806	90.9948	33.1508	-8.9047	39.2096
3953	96.3806	201.1584	13.2141	118.9865	36.8447
18673	96.3806	237.2430	27.7351	143.5021	35.7604
6053	96.3289	36.2648	5.1090	11.4704	11.8845
4432	96.3289	116.5428	21.4180	46.0566	26.6820
5953	96.3289	169.6634	17.2572	290.3810	71.8326
8303	96.3289	92.3654	8.0782	50.7243	18.0310
21973	96.3289	94.0224	1.4839	84.8166	31.2021
2687	96.2771	62.2784	2.6128	100.0773	25.5429
2729	96.2254	276.0500	17.5150	480.2069	152.8510
2042	96.1737	320.1662	58.4861	142.4172	69.3252
23998	96.1220	83.0044	19.9299	37.4956	13.9322

	IFOSPHAMIDI): 48, 144 hrs	E ·	Atty. Re	f. 44921-5090-01	-WO/2105485
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
1632	93.9252	21.9256			
4010	92.7310		23.0504	36.4157	16.3980 46.9120
1780	92.4195	35.5666	5.7305	49.4382	
20734	92.3676		23.4277	94.5444	25.5523 48.0442
8587	92.3157	20.8803	4.2288	41.8238	
25790	92.2638	35.6152	5.7390	59.4251	16.9462 16.3800
16708	91.8484	88.5919	17.8854	157.9072	40.9954
20224	91.7965	26.1801	4.6261	54.4380	23.6048
14543	91.5369	48.5444	13.3595	5.1087	27.4423
18596	91.2773	10.5340	2.2310	21.6064	8.7291
4338	91.2253	69.7044	4.9022	93.0153	21.2727
1827	91.2253	16.2629	9.8338	75.3003	47.7747
24844	90.9657	6.6279	6.2995	54.7281	38.8846
16260	90.4465	45.4320	8.2771	79.8531	24.0301
695	90.2908	53.2826	3.7848	69.0072	17.9080
1904	90.2908	47.5752	5.7608	84.8968	39.3159
305	90.1350	22.3219	9.1616	53.6244	26.0163
25306	90.1350	-11.1511	13.4777	24.5808	23.8453
16272	90.0312	25.6340	8.0024	50.4168	16.9726
20232	89.9792	12.6166	3.2958	27.4022	10.9487
20509	89.9273	20.0840	3.0939	36.0410	15.0767
16610	89.7715	499.3631	73.4028	756.9499	181.8408
24697	89.5119	105.8682	9.8884	155.6203	42.9715
16899	89.4600	32.9150	4.8111	20.0086	13.3720
25262	89.1485	28.4856	3.1939	42.4705	14.5360
385	89.1485	11.8336	5.9556	46.0511	22.7486
2881	88.9927	252.2559	62.0365	398.2385	92.6266
20313	88.8370	8.0980	9.4173	29.3879	10.8937
12022	88.8370	23.3220	5.1564	49.3675	23.7717
1463	88.3697	637.2336	174.0208	362.0256	132.6660
20073	88.2658	2.9439	8.0267	40.0215	19.4706
5159	87.9543	336.6101	76.6035	172.3420	76.1563
348	87.6947	47.5134	9.5651	81.4591	28.9767
15380	87.6428	1163.6321	88.1712	936.7430	371.0795
1265	87.4870	13.2800	9.0537	32.1539	11.5110
15777	87.4870	15.1453	5.2606	35.8179	18.4377
17709	87.3832	131.6908	17.2177	181.8362	42.2679
25290	87.1236	587.7248	84.2770	388.4657	110.4809
17226	87.1236	269.8507	29.5324	190.1852	46.8537
19326	86.8640	69.1733	6.3079	55.9080	24.3541
2832	86.8120	120.5140	13.6626	150.9123	24.0289
1765	86.8120	47.8216	9.6220	83.6380	31.6316
11113	86.7082	14.1942	9.7635	36.4740	19.6053
15776	86.7082	151.7243	22.4822	244.3187	74.2967
24643	86.6044	215.9132	50.8641	69.3391	74.1356
25365	86.3967	9.7790	7.4931	47.8117	33.8018
1808	86.3448	5.7119	5.3248	97.1407	156.9111
11218	86.3448	38.1513	30.2508	128.0294	49.1823
19795	86.3448	34.0938	13.5264	68.0481	27.3656
167	86.3448	345.9002	83.9734	587.3977	174.9745
2947	86.2928	24.4228	9,0045	51.3409	20.3344
21652	86.2409	16.3704	19.2389	25.6408	11.2378

•	IFOSPHAMID : 48, 144 hrs	E	Atty. Ref	f. 44921-5090-01	-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6577	86.2409	150.3376	9.2802	123.4940	35.7175
938	86.2409	9.6093	3.2930		
25765	86.2409	33.1944	8.5889	65.7206	
20210	86.1890	24.6803	11.0628	56.1610	
24597	86.1890	561.1767	51.1917	483.0641	109.4266
1249	86.1371	41.7076	8.2689	60.5223	14.3267
25571	86.1371	36.6171	8.0319	54.8128	15.1105
20732	86.1371	12.7066	4.1574	23.3332	9.0825
15727	86.1371	16.3477	7.4304	39.3159	13.5947
16947	86.0332	50.5529	10.1535	76.5861	22.0020
16962	85.9813	6.9492	6.2045	28.2084	13.7644
23069	85.9294	31.9091	4.3861	44.3683	10.8900
2153	85.7736	289.2098	43.1231	220.9612	123.1106
10544	85.7736	353.9149	29.0669	431.7080	65.7848
20450	85.7736	52.3184	7.1360	72.6463	22.4439
23665	85.7217	34.9232	7.1230	51.8690	12.9006
15310	85.6698	38.2432	6.9779	56.7156	15.2127
2413	85.6179	752.3984	55.8953	625.1376	104.2356
25770	85.6179	69.4238	33.3087	160.7589	60.1974
58	85.5659	97.7782	5.3308	91.3499	24.6679
17693	85.5140	61.2944	7.7884	44.4666	18.2384
20536	85.5140	35.1599	9.6132	11.9589	22.6823
21866	85.3583	113.1301	31.5776	217.3893	93.2963
455	85.3583	3398.0386	634.4508	4996.0023	1069.3956
19423	85.3063	57.2618	11.3319	97.6164	39.0480
1356	85.3063	37.6693	8.3923	20.4105	11.3700
24522	85.3063	8.8614	7.9366	27.5777	12.2626
17427	85.2025	323.6780	57.0555	221.4037	65.8713
17303	85.2025	33.7866	2.8455	41.9456	9.1403
162	84.9429	20.8002	17.6035	42.5670	23.7219
10108	84.8910	91.7666	. 10.7510	63.6700	27.1232
22355	84.7871	16.5914	5.3296	31.9805	12.8094
3799	84.6833	248.9998	58.6310	384.0977	115.4912
1025	84.5275	10.6336	5.2061	33.1574	21.1802
2464	84.5275	32.8120	3.7668	39.8959	13.1058
1024	84.4237	21.5096	7.3160	44.4910	18.9310
10510	84.4237	231.8057	17.9081	245.7739	69.5059
18315	84.2679	752.9110	151.6886	1144.1357	341.8948
18582	84.2679	338.0744	29.3245	250.5000	55.4897
18360	84.2160	279.0253	73.8143	410.2238	103.7573
17997	84.2160	25.9506	5.2089	38.3192	11.5819
983	84.2160	84.9207	11.7220	119.6201	32.5343
942	84.2160	10.7322	6.7701	24.4656	9.1480
15507	84.2160	11.5281	3.6762	20.9932	6.5180
2401	84.1121	19.7984	18.8561	54.8464	22.2599
14066	84.0602	83.1214	8.6258	111.1332	31.3829
1118	84.0602	20.3108	7.7863	51.3574	21.9794
10248	84.0083	373.7648	49.7422	307.3939	85.4952
3390	96.5213	98.0716	16.5306	13.2468	32.8732
11375	95.9502	47.0950	6.7258	101.4006	31.7853
5422	95.9502	255.9669	15.3339	447.6795	137.3423
5549	95.6906	171.8383	14.2889	272.7479	88.2184

	IFOSPHAMIDI		Atty. Ref	f. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6276	95.6386	16.9686	15.6448	103.0190	46.1880
12796	95.6386		11.2831	41.7692	
2962	95.5348	59.8316	8.6970	117.4927	
2424	95.4829	744.0810	64.6463	456.9711	
23288	95.3271		22,1140	272.3246	
14594	95.2233		25.3448	-20.8144	
5710	95.1194		7.2831	115.7780	
2657	94.9117	404.4319	47.1948	214.9007	
4954	94.8079		48.3559	300.5078	
8712	94.7560		20.1516	10.3414	49.3580
10070	94.7040	34.6609	9.5241	79.8852	30.3408
5433	94.6521	48.3568	7.0044	97.6852	36.0229
3952	94.3406		15.2222	220.9986	49.2334
12426	94.2368		34.9450	-53.9307	40.6853
15108	94.2368		7.3179	75.1760	24.1931
5890	94.0810	144.1226	16.6702	237.2963	56.8326
7447	93.8733	54.7359	9.9771	104.1249	30.7595
7698	93.6656	74.4883	11.5063	149.5131	47.2443
16335	93.6137	88.6708	40.5413	266.6131	136.8408
4779	93.5618	40.2461	5.2003	66.4230	17.3590
3352	93.5099	721.7098	75.5300	447.0117	132.9273
10171	93.5099	91.0491	22.1459	180.0318	47.2872
8103	93.4579	-7.6890	9.1160	54.2286	37.7280
15160	93.3541	87.2868	16.4703	213.1044	92.6222
16034	93.3541	109.7919	25.9816	218.6182	58.2329
3899	93.3022	60.4683	21.0169	-11.5877	35.8785
21364	93.1983	72.5470	39.8668	262.2539	123.5654
9521	93.1464	55.8598	9.0144	91.8144	22.2810
2075	93.0426	44.3953	8.3172	89.0395	28.0498
19214	92.8349	127.8322	22.3277	37.8946	63.3805
14842	92.7830	49.3027	12.6519	102.6669	39.3891
22187	92.7830	409.4556	129.1747	867.5699	267.7624
21782	92.6791	38.6721	27.8222	122.8371	47.2701
9352	92.6791	378.4376	53.4050	552.6199	96.8881
8039	92.6791	68.3052	18.3267	140.0283	49.5285
10453	92.6272	53.9392	16.4808	132.5562	49.5265
11408	92.6272	32.4582	18.6918	129.4645	55.9234
5095	92.6272	416.0853	28.8365	567.1313	110.1052
9554	92.5753	40.4331	14.8696	97.1900	33.8327
3265	92.4714	41.5882	12.8118	98.6859	36.9127
3637	92.3676	15.1582	7.5334	41.6123	22.4054
22405	92.3157	133.8187	32.5703	238.9619	
7264	92.2638	27.2209	10.8354	72.6050	59.6023 47.7981
16686	92.2118	118.8172	33.9194	234.5096	69.1124
6737	92.1080	177.6041	46.8049		68.4928
2526	92.1080	236.0059	26.3307	85.4628	58.8308
8557	92.1080	124.4789	33.6220	326.7278 298.5563	128.6680
10690	92.1080	26.9454	4.5462		18.2157
22480	92.1080	67.8894	14.8504	6.3091 144.3945	51.0405
5990	92.0561	483.3228			
6496	92.0042		40.6774	361.6884	71.5924
21889	91.9522	91.6501	25.0566	188.0613	55.0460
2 1009	31.8022	72.4361	17.2609	128.0111	31.2454

TABLE 5U:	IFOSPHAMID	Attv. Re	f. 44921-5090-01	-WO/2105485	
): 48, 144 hrs		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23092	91.9003	276.9497	35.3796	396.4401	70.1076
5726	91.8484	47.5982	14.2846	92.5981	28.6611
8158	91.8484	213.3934	48.7506		
10277	91.8484	25.4588	9.4491	82.9826	42.3476
3781	91.7445		12.0879	30.3861	26.3140
4750	91.6926	129.3269	39.4346	255.8295	
17552	91.6926	54.2706	13.2305	100.7306	33.8001
22708	91.6926	165.1820	16.0246	252.7250	71.8390
19159	91.6407	347.2374	57.9407	243.3276	58.7902
12805	91.6407	46.1116	10.1198	12.1679	53,7115
2492	91.5888	191.2070	34.7816	110.1686	42.6341
22308	91.5888	311.2068	57.2959	130.6294	104.9578
5595	91.5369	133.1074	12.8488	188.8985	46.4980
5370	91.5369	44.2783	20.8570	134.8288	63.6771

TABLE 5V: Ifo	sphamide-Core	Tox Markers	Atty. R	Ref.;44921-5090-0	1-WO/2105485
Timepoint(s): 4	48, 144 hrs LDA Score	Mean Tox		<u> </u>	
16448	97.1963				SD Nontox
25517	96.9886		15.1149	282.8893	
18907			5.5888	164.7448	
6654	95.9502	43.0038	37.5571	445.5213	256.1916
25468		66.3403	7.8424	32.6269	13.7744
25469	94.7560	1301.8949	1387.7861	6101.7220	2467.7418
1632	93.9252	1031.8324	1010.7518	4514.6746	1818.4718
1684	93.6137	21.9256	4.7059	49.1647	16.3980
4010	92.7310	1779.0361	1757.4448	6747.6461	2993.0791
1780	92.7310	83.0657	23.0504	36.4157	46.9120
20734	92.3676	35.5666	5.7305	49.4382	25.5523
8587	92.3157	144.9521	23.4277	94.5444	48.0442
25790	92.2638	20.8803	4.2288	41.8238	16.9462
16708	91.8484	35.6152	5.7390	59.4251	16.3800
20224	91.7965	88.5919	17.8854	157.9072	40.9954
14543	91.7965	26.1801	4.6261	54.4380	23.6048
18596		48.5444	13.3595	5.1087	27.4423
4338	91.2773 91.2253	10.5340	2.2310	21.6064	8.7291
1827		69.7044	4.9022	93.0153	21.2727
24844	91.2253	16.2629	9.8338	75.3003	47.7747
9501	90.9657	6.6279	6.2995	54.7281	38.8846
	90.9138	152.3356	11.4546	118.4492	23.4890
16260	90.4465	45.4320	8.2771	79.8531	24.0301
695 1904	90.2908	53.2826	3.7848	69.0072	17.9080
1845	90.2908	47.5752	5.7608	84.8968	39.3159
305	90.1869	-39.5333	15.8480	50.2903	75.5014
25306	90.1350 90.1350	22.3219	9.1616	53.6244	26.0163
16272	90.1350	-11.1511	13.4777	24.5808	23.8453
20232	89.9792	25.6340	8.0024	50.4168	16.9726
20509	89.9273	12.6166	3.2958	27.4022	10.9487
16610	89.7715	20.0840	3.0939	36.0410	15.0767
24697	89.5119	499.3631	73.4028	756.9499	181.8408
16899	89.4600	105.8682	9.8884	155.6203	42.9715
25262	89.1485	32.9150	4.8111	20.0086	13.3720
385	89.1485	28.4856	3.1939	42.4705	14.5360
2881	88.9927	11.8336	5.9556	46.0511	22.7486
20313		252.2559	62.0365	398.2385	92.6266
12022	88.8370 88.8370	8.0980	9.4173	29.3879	10.8937
1463		23.3220	5.1564	49.3675	23.7717
20073	88.3697	637.2336	174.0208	362.0256	132.6660
956	88.2658	2.9439	8.0267	40.0215	19.4706
4011	88.2658	109.0921	25.9296	220.8949	96.5220
5159	88.0062	26.8526	6.8641	15.2646	19.2039
348	87.9543	336.6101	76.6035	172.3420	76.1563
15380	87.6947	47.5134	9.5651	81.4591	28.9767
1265	87.6428	1163.6321	88.1712	936.7430	371.0795
15777	87.4870	13.2800	9.0537	32.1539	11.5110
	87.4870	15.1453	5.2606	35.8179	18.4377
17709 25290	87.3832	131.6908	17.2177	181.8362	42.2679
	87.1236	587.7248	84.2770	388.4657	110.4809
17226 19326	87.1236	269.8507	29.5324	190.1852	46.8537
2832	86.8640	69.1733	6.3079	55.9080	24.3541
2032	86.8120	120.5140	13.6626	150.9123	24.0289

TABLE 5V: Ifos Timepoint(s): 4	sphamide-Core 48, 144 hrs	·	Atty. F	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1765	86.8120	47.8216	9.6220	83.6380	31.6316
11113	86.7082	14.1942	9.7635	36.4740	19.6053
15776	86.7082	151.7243	22.4822	244.3187	74.2967
24643	86.6044	215.9132	50.8641	69.3391	74.1356
25365	86.3967	9.7790	7.4931	47.8117	33.8018
1808	86.3448	5.7119	5.3248	97.1407	156.9111
11218	86.3448	38.1513	30.2508	128.0294	49.1823
19795	86.3448			68.0481	27.3656
167	86.3448	345.9002	83.9734	587.3977	174.9745
2947	86.2928	24.4228	9.0045	51.3409	20.3344
21652	86.2409	16.3704		25.6408	11.2378
6577	86.2409	150.3376		123.4940	35.7175
938	86.2409	9.6093			10.0987
25765	86.2409	33.1944		65.7206	19.4755
20210	86.1890	24.6803			17.5939
24597	86.1890			483.0641	109.4266
1249	86.1371	41.7076		60.5223	14.3267
25571	86.1371	36.6171	8.0319	54.8128	15.1105
20732	86.1371	12.7066			9.0825
15727	86.1371	16.3477	7.4304	39.3159	13.5947
16947	86.0332	50.5529	10.1535		22.0020
16962	85.9813	6.9492			13.7644
23069	85.9294			44.3683	10.8900
2153				220.9612	123.1106
10544	85.7736				65.7848
20450		52.3184	7.1360	72.6463	22.4439
23665		34.9232	7.1230	51.8690	12.9006
15310	85.6698	38.2432		56.7156	15.2127
2413	85.6179	752.3984	1	625.1376	104.2356
25770	85.6179	69.4238		160.7589	60.1974
58	85.5659	97.7782	5.3308	91.3499	24.6679
17693	85.5140		·		18.2384
20536					22.6823
21866					93.2963
455					1069.3956
19423		 	 		39.0480
1356					
24522					12.2626
17427					65.8713
17303					
162					
10108					
22355					
3799					115.4912 21.1802
1025	 				
2464 1024					
1024					
					
8515					75.5834
1831					
26150					
1687	97.0405	641.7103	593.6589	4468.7838	1770.3097

TABLE 5V: Ifo: Timepoint(s):	sphamideCore 48, 144 hrs	Tox Markers	Atty. F	Ref. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19358	97.0405	378.9000	312.7266	2479.5780	947.3107
3390	96.5213	98.0716	16.5306	13.2468	
1689	96.2098	1657.4481	1651.1974	9093.2905	
17832	96.1059	753.9386	718.7494	5637.5942	2321.1012
7120	96.0540	3.4607	7.5661	52.6522	27.1502
11375	95.9502	47.0950	6.7258	101.4006	31.7853
5422	95.9502	255.9669	15.3339	447.6795	137.3423
5549	95.6906	171.8383	14.2889	272.7479	88.2184
6276	95.6386	16.9686	15.6448	103.0190	46.1880
12796	95.6386	-12.9629	11.2831	41.7692	26.8851
2962	95.5348	59.8316	8.6970	117.4927	32.2233
8612	95.5348	0.2689	6.9976	46.0127	28.3992
2424	95.4829	744.0810	64.6463	456.9711	109.4196
23288	95.3271	162.0457	22.1140	272.3246	62.0544
14594	95.2233	37.3820	25.3448	-20.8144	26.6169
5710	95.1194	64.4711	7.2831	115.7780	29.5012
17892	94.9637	74.1322	32.9001	496.0090	309.0373
2657	94.9117	404.4319	47.1948	214.9007	86.2187
23096	94.8598	303.9404	28.8283	106.0388	116.0834
4954	94.8079	75.8566	48.3559	300.5078	120.2101
8712	94.7560	93.8463	20.1516	10.3414	49.3580
10070	94.7040	34.6609	9.5241	79.8852	30.3408
17917	94.6521	94.8277	47.9334	-207.1858	165.7049
5433	94.6521	48.3568	7.0044	97.6852	36.0229
1830	94.5483	21.8907	8.9622	91.8654	47.1237
3952	94.3406	142.5596	15.2222	220.9986	49.2334
12426	94.2368	36.4587	34.9450	-53.9307	40.6853
15108	94.2368	33.5728	7.3179	75.1760	24.1931
5890	94.0810	144.1226	16.6702	237.2963	56.8326
7447	93.8733	54.7359	9.9771	104.1249	30.7595
7698	93.6656	74.4883	11.5063	149.5131	47.2443
16335	93.6137	88.6708	40.5413	266.6131	136.8408
4779	93.5618	40.2461	5.2003	66.4230	17.3590
3352	93.5099	721.7098	75.5300	447.0117	132.9273
10171	93.5099	91.0491	22.1459	180.0318	47.2872
8103	93.4579	-7.6890	9.1160	54.2286	37.7280
15160	93.3541	87.2868	16.4703	213.1044	92.6222
16034	93.3541	109.7919	25.9816	218.6182	58.2329
3899	93.3022	60.4683	21.0169	-11.5877	35.8785
21364	93.1983	72.5470	39.8668	262.2539	123.5654
6176	93.1983	38.5042	16.9291	124.2971	49.3222
9521	93.1464	55.8598	9.0144	91.8144	22.2810
2075	93.0426	44.3953	8.3172	89.0395	28.0498
19214	92.8349	127.8322	22.3277	37.8946	63.3805
14842	92.7830	49.3027	12.6519	102.6669	39.3891
22187	92.7830	409.4556	129.1747	867.5699	267.7624
21782	92.6791	38.6721	27.8222	122.8371	47.2701
9352	92.6791	378.4376	53.4050	552.6199	96.8881
8039	92.6791	68.3052	18.3267	140.0283	49.5285
10453	92.6272	53.9392	16.4808	132.5562	49.1075
11408	92.6272	32.4582	18.6918	129.4645	55.9234
5095	92.6272	416.0853	28.8365	567.1313	110.1052

TABLE 5V: Ifo	sphamide-Core	Tox Markers	Attv. F	Ref. 44921-5090-0	1-10/0/2105/95
Timepoint(s):	48, 144 hrs	•		B 44 /	
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
9554	92.5753	40.4331	14.8696	97.1900	33.8327
3265		41.5882		98.6859	36.9127
3637	92.3676		7.5334	41.6123	22.4054
1685	92.3157	3767.8787	3620.3845	16237.8222	9744.3700
22405	92.3157	133.8187	32.5703	238.9619	59.6023
7264	92.2638	27.2209	10.8354	72.6050	47.7981
16686	92.2118	118.8172	33.9194	234.5096	69.1124
6737	92.1080	177.6041	46.8049	85.4628	68.4928
2526	92.1080	236.0059	26.3307	326.7278	58.8308
8557	92.1080	124.4789	33.6220	298.5563	128.6680
10690	92.1080	26.9454	4.5462	6.3091	18.2157
22480	92.1080	67.8894	14.8504	144.3945	51.0405
5990	92.0561	483.3228	40.6774	361.6884	71.5924
6496	92.0042	91.6501	25.0566	188.0613	55.0460
21889	91.9522	72.4361	17.2609	128.0111	31.2454
23092	91.9003	276.9497	35.3796	396.4401	70.1076
5726	91.8484	47.5982	14.2846	92.5981	28.6611
8158	91.8484	213.3934	48.7506	403.2356	114.7865
10277	91.8484	25.4588	9.4491	82.9826	42.3476
3781	91.7445	-8.0857	12.0879	30.3861	26.3140
4750	91.6926	129.3269	39.4346	255.8295	84.7185
17552	91.6926	54.2706	13.2305	100.7306	33.8001
22708	91.6926	165.1820	16.0246	252.7250	71.8390
19159	91.6407	347.2374	57.9407	243.3276	58.7902
12805	91.6407	46.1116	/ 10.1198	12.1679	53.7115
2492	91.5888	191.2070	34.7816	110.1686	42.6341
22308	91.5888	311.2068	57.2959	130.6294	104.9578
5595	91.5369	133.1074	12.8488	188.8985	46.4980
5370	91.5369	44.2783	20.8570	134.8288	63.6771

TABLE 5W: Timepoint(s	ISOPROTERI	ENOL	Atty.	Ref. 44921-5090-	01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1977	99.2761	281.1560	19.9468	553.2170	108.9731
17383	99.2244	242.5684	60.2422	9.3550	26.2362
23651	99.0693	1262.3600	965.5064		119.7939
18308	98.2420	364.6776	43.3971	726.0715	
20589	98.0869	686.0406	217.7915	147.0226	81.7174
18190	97.9835	61.2730	11.9914	142.6882	35.4957
20869	97.7249	191.1688	54.1307	61.7710	37.3905
20862	97.2079	109.6054	9.1395	202.5150	51.9772
25801	97.1562	93.4938	32.8141	34.2978	17.5263
20872	97.0527	2107.4202	138.5598	1374.1089	298.2244
15876	97.0010	2286.4682	205.9736	1515.4745	242.0758
20855	97.0010	438.1068	58.9423	701.2188	121.6465
815	96.8459	2397.1246	164.5055	1484.6920	348.7453
24886	96.8459	2430.0154	191.4842	1650.1080	273.4053
20856	96.8459	660.1966	91.9345	1097.4267	184.9369
9620	96.7425	1309.2228	111.2494	796.0881	180.1810
13974	96.7425	950.2598	158.6988	537.7136	142.7811
9240	96.6908	841.4074	37.9755	1171.9326	182.4209
18881	96.6391	43.1530	7.8137	18.5638	7.9904
25702	96.6391	1006.5474	52.0540	717.8472	132.1563
17586	96.4840	168.2388	26.2737	99.2782	23.1224
15867	96.4840	76.8508	7.7156	39.3922	53.8512
17481	96.4323	44.0366	6.8639	8.6432	17.6908
16918	96.3806	2701.6484	298.5475	1656.8293	390.8094
468	96.3806	253.3670	4.6985	335.6019	77.0161
18307	96.3289	77.1716	18.0621	197.3083	62.0223
2109	96.3289	1185.6356	179.4987	756.7138	157.0759
18569	96.2254	3600.5110	873.6649	1593.1738	595.1392
15135 4222	96.1220	1536.2712	135.8295	994.3579	218.0367
13647	96.1220	1291.4320	87.5453	980.3590	130.9204
5667	96.1220 96.0186	1151.5724 1612.5846	181.5847 102.2626	559.6657	202.5750
3244	96.0186	120.3262		1149.1016	189.6771
17159	95.9152	1572.3148	8.1327 187.6344	176.4112 1018.6373	33.5751
17100	95.7601	2047.7910	178.7334	1308.2477	243.3853 293.8709
17729	95.7601	1918.3926	161.8414	1323.1157	225.7358
18025	95.7601	123.1492	7.0280	183.1607	36.0667
23888	95.7084	111.4202	15.3955	56.8814	21.8637
21076	95.7084	76.1978	4.6504	123.0470	28.4901
1523	95.7084	122.9916	17.2852	212.2060	51.8349
690	95.6567	44.4970	1.2320	43.1497	21.6870
13646	95.6050	946.2256	83.5885	577.1178	155.8400
14966	95.6050	116.9316	18.4361	39.1802	45.8032
15387	95.5533	1127.9196	97.1354	765.4720	152.9382
7594	95.5533	42.7394	8.6206	21.5775	9.6285
20056	95.5533	91.0126	16.1662	154.1554	29.1854
24885	95.5016	1825.4132	196.0255	1170.4232	257.0082
23889	95.4498	193.3960	50.6143	94.2180	32.1467
17380	95.4498	411.4880	45.1926	602.8949	97.2775
20839	95.3981	2157.4994	150.2386	1521.6955	266.3647
25686	95.3981	1409.5814	104.8654	970.9436	195.1788
17379	95.3981	300.4482	20.9956	439.7134	98.9308

10109 95.2947 1758.3110 118.9654 1264.7123 227.55 21377 95.1913 166.6046 15.3011 99.7410 31.33 18387 95.1913 1591.3322 135.0484 2366.1538 453.01 1876 95.1396 48.7360 3.7356 82.1938 24.38 17374 95.1396 211.4694 5.6650 273.8754 58.55 17303 95.0879 28.4336 1.5918 41.9396 9.10 3027 95.0362 2264.5632 150.9679 1608.7857 296.60 178.15 94.9845 25.1606 7.0400 6.0317 8.23 172.17 94.9845 25.1606 7.0400 6.0317 8.23 18250 94.9328 2294.3592 147.3030 1649.1933 321.1 143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.47 2812 94.8294 57.9592 3.3591 89.9564 24.81 22812 94.8294 57.9592 3.3591 89.9564 24.81 22812 94.7777 107.9794 13.5568 65.6747 22.47 1728 94.7777 1063.3382 64.9909 1491.8039 266.11 1728 94.7726 446.1930 36.8473 640.8500 109.22 23783 94.7260 246.67688 73.8015 2732.5401 638.06 94.7260 246.67688 73.8633 64.8500 109.22 246.6743 23.2500 8.8763 108.2320 102.44 494.5191 25.0396 2.4880 62.7119 52.76 22.44 94.5191 25.0396 2.4880 62.7119 52.76 22.44 94.5191 25.0396 2.4890 62.7119 52.76 22.44 94.5191 40.3384 1.9517 62.5625 33.94 24.814 94.5191 40.3384 1.9517 62.5625 33.94 24.814 94.5191 104.1916 8.7462 71.9542 16.62 208 94.5191 68.2482 11.3289 215.2800 56.67 12.486 94.5191 68.2493 138.6406 1015.8598 357.11 142.3366 94.5191 168.2349 1.35606 10.158598 357.11 1.4494 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135 247.6753 54.0084 94.5191 168.2608 10.1135		ISOPROTERI	ENOL	Atty.	Ref. 44921-5090-	01-WO/2105485
10109			Mean Tox	SD Tox	Mean Nontox	SD Nontox
21377 95.1913 166.6046 15.3011 99.7410 31.33 18387 95.1913 1591.3322 135.0484 2366.1538 453.00 1876 95.1396 48.7360 3.7356 82.1938 24.34 17374 95.1396 211.4694 5.6650 273.8754 58.56 17303 95.0879 28.4336 1.5918 41.9396 9.10 17303 95.0879 28.4336 1.5918 41.9396 9.10 17303 95.0879 28.4336 1.5918 41.9396 9.10 17303 95.0362 2264.5632 150.9679 1608.7857 296.66 17815 94.9845 25.1606 7.0400 6.0317 8.25 17217 94.9845 335.5012 7.1145 405.3749 80.93 18250 94.9328 2294.3592 147.3030 1649.1933 321.11 143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.44 2812 94.8294 57.9592 3.3591 89.9564 24.85 22810 94.7777 3017.1464 362.7701 2018.4821 406.77 7593 94.7777 107.9794 13.5568 65.6747 22.47 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 2466.0890 15.7047 404.1912 68.22 4459 94.7260 296.0890 15.7047 404.1912 68.22 94.6743 23.2500 8.8763 108.2320 102.44 459 94.7260 23.8026 3.2653 43.7754 15.85 22 94.6743 23.2500 8.8763 108.2320 102.45 15303 94.6225 121.2882 11.3289 215.2800 56.66 2008 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 25.0396 2.4980 62.7119 52.776 24814 94.5191 25.0396 2.4980 62.7119 52.776 24814 94.5191 104.1916 8.7462 71.9542 16.65 2008 94.5191 40.3384 1.9517 62.5625 33.951 15486 94.3640 15.8234 0.7048 26.0108 16.03	14959	95.2947	1152.2914	74.7831	802.2623	158.5034
18387 95.1913 1591.3322 135.0484 2366.1538 453.00 1876 95.1396 48.7360 3.7366 82.1938 24.33 17374 95.1396 211.4694 5.6650 273.8754 58.56 17303 95.0879 28.4336 1.5918 41.9396 9.10 3027 95.0362 2264.5632 150.9679 1608.7857 296.6 17815 94.9845 25.1606 7.0400 6.0317 8.25 17217 94.9845 235.5012 7.1145 405.3749 80.95 18250 94.9328 2294.3592 147.3030 1649.1933 321.15 1143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.45 2812 94.8294 57.9592 3.3591 89.9564 24.85 20810 94.7777 3017.1464 362.7701 2018.4821 406.77 7593 94.7777 1063.3382 64.9909 1491.8039 266.12 1728 94.7260 2486.7688 739.8015 2732.5401 638.06 23666 94.7260 2486.7688 739.8015 2732.5401 638.06 22.2783 94.7260 226.0890 15.7047 404.1912 68.22 24.459 94.7260 226.0890 15.7047 404.1912 68.22 24.459 94.7260 226.0890 15.7047 404.1912 68.22 24.5191 25.0396 24.980 62.7119 52.75 24.414 94.5191 104.1916 8.7662 71.9542 16.65 22.945.791 1683.4932 13.86406 1015.8598 357.11 17494 94.5191 104.1916 8.7662 71.9542 16.65 24.819 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.24844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.84844 27.1746 864.7216 24.33 15.202 94.5191 55.2460 10.1135 247.6753 35.401 10.498 94.5191 55.2460 10.1135 247.6753 35.401 10.498 94.5464 19.5036 23.6599 1376.3590 271.74 14.2466 94.2666 1764.6184 146.7957 139.5903 217.74 15.	10109	95.2947	1758.3110	118.9654	1264.7123	227.5776
1876 95.1396 48.7360 3.7356 82.1938 24.36 17374 95.1396 211.4694 5.6650 273.8754 58.8 17303 95.08679 28.4336 1.5918 41.9396 9.11 3027 95.0362 2264.5632 150.9679 1608.7857 296.66 17815 94.9845 25.1606 7.0400 6.0317 8.22 17217 94.9845 335.5012 7.1145 405.3749 80.93 18250 94.9328 2294.3592 147.3030 1649.1933 32.11 1143 94.9328 83.5102 5.9807 128.6649 30.22 23854 94.8294 1140.2992 146.7358 709.1314 172.44 2812 94.8294 57.9592 3.3591 89.9564 24.86 2810 94.7777 3017.1464 362.7701 2018.4821 406.7 7593 94.7777 107.9794 13.5568 65.6747 22.4 15052 94.7260 <td>21377</td> <td>95.1913</td> <td>166.6046</td> <td>15.3011</td> <td>99.7410</td> <td>31.3940</td>	21377	95.1913	166.6046	15.3011	99.7410	31.3940
1876	18387	95.1913	1591.3322	135.0484	2366.1538	453.0061
17374 95.1396 211.4694 5.6650 273.8754 58.56 17303 95.0879 28.4336 1.5918 41.9396 9.11 3027 95.0362 2264.5632 150.9679 1608.7857 296.66 17815 94.9845 25.1606 7.0400 6.0317 8.25 17217 94.9845 335.5012 7.1145 405.3749 80.93 18250 94.9328 2294.3592 147.3030 1649.1933 321.1 143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.46 2812 94.8294 57.9592 3.3591 89.9564 24.82 2810 94.7777 3017.1464 362.7701 2018.4821 406.77 7593 94.7777 107.9794 13.5568 65.6747 22.46 1728 94.7777 1063.3382 64.9909 1491.8039 266.17 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 226.0890 15.7047 404.1912 68.22 94.6743 23.2500 8.8763 108.2320 102.44 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.241 24814 94.5191 25.0396 2.4980 62.7119 52.241 24814 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 40.3384 1.9517 62.5625 33.96 14244 94.674 238.1568 137.5725 1810.0884 305.16 14468 94.664 238.534 247.6753 54.03 14468 94.666 37.9063 37.9372 2113.8723 463.91 1466.69 34.660 1015.8598 357.17 142.386 94.2666 3179.0632 37.9372 2113.8723 463.91 15486 94.2666 31.7568 31.75725 1810.0884 305.16 15486 94.2666 31.7663 32.3659 1376.3590 271.76 16023 94.3640 158.8712 77.7111 142.3866 94.2666 31.7663 32.3659 1376.3590 271.76 16023 94.3640 1997.8460 323.6599 1376.3590 271.77 15486 94.2666 31.7663 31.5628 31.3666 31.6669 31.690 32.6669 31.690 32.6655 31.76.2690 31.6669 31.690 32.6655 33.9660 31.6669 31.690 32.6655 31.8666 31.6	1876	95.1396	48.7360	3.7356		24.3829
3027 95.0362 2264.5632 150.9679 1608.7857 296.66 17815 94.9845 25.1606 7.0400 6.0317 8.25 17217 94.9845 335.5012 7.1145 405.3749 80.93 18250 94.9328 2294.3592 147.3030 1649.1933 321.15 1143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 1467.358 709.1314 172.46 2812 94.8294 57.9592 3.3591 89.9564 24.86 20810 94.7777 3017.1464 362.7701 2018.4821 406.76 7593 94.7777 107.9794 13.5568 65.6747 22.46 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.27 4459 94.6726 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.46 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.77 24814 94.5191 104.1916 8.7462 71.9542 16.65 2008 94.5191 40.3384 1.9517 62.5625 33.91 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1683.4932 138.6406 1015.8598 357.10 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.76 16023 94.3123 1098.3534 62.6343 1591.177 334.18 15466 94.2606 1764.6184 146.7957 1395.5903 271.76 16023 94.3606 1764.6184 146.7957 1395.5903 271.76 16023 94.3123 1098.3534 62.6343 1591.177 334.18 15305 94.2606 3179.0632 379.2372 2113.8723 463.9 20178 94.2606 3179.0632 379.2372 2113.8723 463.9 20178 94.2606 24.0734 5.5626 36.3633 15	17374	95.1396	211.4694	5.6650	273.8754	58.5667
17815 94.9845 25.1606 7.0400 6.0317 8.25 17217 94.9846 335.5012 7.1145 405.3749 80.93 18250 94.9328 238592 147.3030 1649.1933 321.13 1143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.46 2812 94.8294 57.9592 3.3591 89.9564 24.86 20810 94.7777 3017.1464 362.7701 2018.4821 406.77 7593 94.7777 106.3382 64.9909 1491.8039 266.12 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23783 94.7260 428.67688 739.8015 2732.5401 638.06 24794 94.7260 23.8026 3.2653 43.7754 15.83 25783	17303	95.0879	28.4336	1.5918	41.9396	9.1066
17217	3027	95.0362	2264.5632	150.9679	1608.7857	296.6061
18250 94.9328 2294.3592 147.3030 1649.1933 321.15 1143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.45 2812 94.8294 57.9592 3.3591 89.9564 24.88 20810 94.7777 107.9794 13.5568 65.6747 22.46 7593 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 428.67688 739.8015 2732.5401 638.06 23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.44 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 <t< td=""><td>17815</td><td>94.9845</td><td>25.1606</td><td>7.0400</td><td>6.0317</td><td>8.2944</td></t<>	17815	94.9845	25.1606	7.0400	6.0317	8.2944
1143 94.9328 83.5102 5.9807 128.6649 30.26 23854 94.8294 1140.2992 146.7358 709.1314 172.45 2812 94.8294 57.9592 3.3591 89.9564 24.86 20810 94.7777 3017.1464 362.7701 2018.4821 406.76 7593 94.7777 107.9794 13.5568 65.6747 22.40 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 246.0890 15.7047 404.1912 68.22 23783 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.4 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.519	17217	94.9845	335.5012	7.1145	405.3749	80.9328
23854 94.8294 1140.2992 146.7358 709.1314 172.45 2812 94.8294 57.9592 3.3591 89.9564 24.88 20810 94.7777 3017.1464 362.7701 2018.4821 406.70 7593 94.7777 107.9794 13.5568 65.6747 22.44 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.22 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.44 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 104.1916 8.7462 71.9542 16.63 2008 94	18250	94.9328	2294.3592	147.3030	1649.1933	321.1304
2812 94.8294 57.9592 3.3591 89.9564 24.86 20810 94.7777 3017.1464 362.7701 2018.4821 406.77 7593 94.7777 107.9794 13.5568 65.6747 22.40 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.22 4459 94.7260 298.0896 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.48 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 40.3384 1.9517 62.5625 33.9 18319 94.5191<	1143	94.9328	83.5102	5.9807	128.6649	30.2698
20810 94.7777 3017.1464 362.7701 2018.4821 406.76 7593 94.7777 107.9794 13.5568 65.6747 22.46 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 2486.7688 739.8015 2732.5401 638.06 23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.46 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5	23854	94.8294	1140.2992	146.7358	709.1314	172.4544
7593 94.7777 107.9794 13.5568 65.6747 22.40 1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.44 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 165.2608 10.1135 247.6753 54.03 15202 94.5191 <td>2812</td> <td>94.8294</td> <td>57.9592</td> <td>3.3591</td> <td>89.9564</td> <td>24.8832</td>	2812	94.8294	57.9592	3.3591	89.9564	24.8832
1728 94.7777 1063.3382 64.9909 1491.8039 266.12 15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 228.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.48 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1652.608 10.1135 247.6753 54.03 19244 94.46	20810	94.7777	3017.1464	362.7701	2018.4821	406.7029
15052 94.7260 4286.7688 739.8015 2732.5401 638.06 23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.63 22 94.6743 23.2500 8.8763 108.2320 102.45 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1652.608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 30.57 15486 94.3	7593	94.7777	107.9794	13.5568	65.6747	22.4021
23606 94.7260 446.1930 36.8473 640.8500 109.27 23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.46 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.4674 2381.5768 137.5725 1810.0844 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.51 15486 94.3	1728	94.7777	1063.3382	64.9909	1491.8039	266.1204
23783 94.7260 296.0890 15.7047 404.1912 68.24 4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.46 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640<	15052	94.7260	4286.7688	739.8015	2732.5401	638.0684
4459 94.7260 23.8026 3.2653 43.7754 15.83 22 94.6743 23.2500 8.8763 108.2320 102.45 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.16 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3	23606	94.7260	446.1930	36.8473	640.8500	109.2710
22 94.6743 23.2500 8.8763 108.2320 102.49 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.16 15468 <	23783	94.7260	296.0890	15.7047	404.1912	68.2440
22 94.6743 23.2500 8.8763 108.2320 102.49 15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.16 15468 <	4459		23.8026			15.8319
15303 94.6225 121.2882 11.3289 215.2800 56.66 21 94.5191 25.0396 2.4980 62.7119 52.78 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.96 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.16 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.55 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468	22					102.4995
21 94.5191 25.0396 2.4980 62.7119 52.76 24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305	15303					56.6663
24814 94.5191 104.1916 8.7462 71.9542 16.63 2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178						52.7892
2008 94.5191 40.3384 1.9517 62.5625 33.95 18319 94.5191 558.4844 27.1746 864.7216 243.37 15202 94.5191 1683.4932 138.6406 1015.8598 357.10 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18386<	24814					16.6319
15202 94.5191 1683.4932 138.6406 1015.8598 357.16 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18366 94.2089 1463.4778 250.1575 2274.2335 449.12	2008					33.9581
15202 94.5191 1683.4932 138.6406 1015.8598 357.16 17494 94.5191 165.2608 10.1135 247.6753 54.03 19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18366 94.2089 1463.4778 250.1575 2274.2335 449.12	18319	94.5191	558.4844			243.3743
19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.93 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18366 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04	15202	94.5191	1683.4932	138.6406	1015.8598	357.1087
19244 94.4674 2381.5768 137.5725 1810.0884 305.16 21575 94.4674 185.8712 7.1711 142.3836 30.57 15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18366 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04	17494	94.5191	165.2608	10.1135	247.6753	54.0337
15486 94.3640 15.8234 0.7048 26.0108 16.05 10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15	19244	94.4674	2381.5768		1810.0884	305.1647
10498 94.3640 1997.8460 323.6599 1376.3590 271.74 16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27	21575	94.4674	185.8712	7.1711	142.3836	30.5794
16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 <td< td=""><td>15486</td><td>94.3640</td><td>15.8234</td><td>0.7048</td><td>26.0108</td><td>16.0510</td></td<>	15486	94.3640	15.8234	0.7048	26.0108	16.0510
16023 94.3123 1098.3534 62.6343 1591.1177 334.18 15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.97 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 <td< td=""><td>10498</td><td>94.3640</td><td>1997.8460</td><td>323.6599</td><td>1376.3590</td><td>271.7471</td></td<>	10498	94.3640	1997.8460	323.6599	1376.3590	271.7471
15468 94.2606 1764.6184 146.7957 1309.5903 219.73 18305 94.2606 3179.0632 379.2372 2113.8723 463.93 20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77	16023	94.3123	1098.3534			334.1844
20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77	15468	94.2606	1764.6184	146.7957		219.7387
20178 94.2606 24.0734 5.5628 -2.6341 30.95 15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77	18305	94.2606	3179.0632	379.2372	2113.8723	463.9186
15626 94.2089 2696.1736 223.2380 1808.3848 402.07 18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77	20178	94.2606	24.0734		-2.6341	30.9588
18606 94.2089 1187.2666 93.6190 822.6851 177.20 18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77	15626					402.0718
18386 94.2089 1463.4778 250.1575 2274.2335 449.12 11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						177.2054
11384 94.2089 30.5094 0.8177 33.3866 11.04 15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						449.1281
15201 94.1055 3246.1558 357.7373 2274.4849 449.27 12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						11.0480
12058 94.1055 129.6848 4.0030 101.1381 38.15 15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						449.2785
15335 94.0538 890.1394 89.1651 618.3418 136.27 21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						38.1588
21840 94.0538 369.6284 22.7713 525.3803 122.98 20582 93.8469 325.5276 35.9961 493.2211 97.77						136.2742
20582 93.8469 325.5276 35.9961 493.2211 97.77						122.9813
 						97.7707
1/U.DC 16CdC.16.1 (8EST.16 (6PCC.8UC (80P0.68 (8PUC	5049	93.8469	509.5548		737.5654	170.5862
 						271.5419
						27.0914
						132.3437
						54.8179
						

	ISOPROTERE): 24 hrs	NOL	Atty.	Ref. 44921-5090-	01-WO/2105485
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox
4207	98.3454	290.4604			
2296	98.2937	379.8296		119.8422	1
11893		180.3784		3.6850	
2125	97.9317	488.2134	244.5406		87.0160
16753	97.9317	228.0646	109.3065	-5.2427	
7650	97.8800	336.5038	126.0327	104.0033	64.2031 39.0348
16394	97.8283	1953.5320	301.7161	776.7555	
24040	97.7766	978.5796	315.0650	371.7175	
8058	97.7249	518.1870	64.7283	315.9890	
4232	97.7249	507.8808	143.7363	185.4600	77.5704
21500	97.6732	302.2368	83.4080	88.8370	
22556	97.5181	73.0724	20.5771	20.3416	14.8252
22223	97.4147	52.9336	7.9327	223.7111	108.7679
6691	97.4147	347.9868	74.7675	156.4936	
4967	97.3630	88.9172	20.1806	36,4109	
4491	97.3113	153.5246	56.1239	46.1077	27.4902
14776	97.3113	288.4110	18.9884	444.9225	80.9918
13539	97.3113	183.1240	55.3367	74.3225	25.9366
3903	97.2596	34.9996	41.3641	-126.2066	69.6649
17826	97.0010	41.9274	21.5602	4.8398	
23498	97.0010	224.7006	18.7019	366.4700	
16203	96.9493	78.9488	12.7853	139.5266	48.7555
18	96.9493	163.0158	11.9147	87.7965	33.5906
3505	96.9493	201.4542	43.7494	-34.7538	122.1253
24038	96.8976	512.3702	127.4492	214.5274	78.1911
18296	96.8976	264.4690	9.2486	176.4902	54.0493
2888	96.7942	572.6298	56.5113	985.9715	212.4677
14960	96.7425	2827.0198	325.2308	1623.3914	445.4860
10269	96.4840	3223.7554	534.9910	1981.1927	399.6866
20845	96.4323	756.6490	199.2139	283.6651	204.3095
8339	96.3806	67.1254	3.5227	109.8235	26.8107
8729	96.2771	37.7988	23.4009	-26.2680	25.5023
4670	96.2254	651.6486	37.0112	968.8950	197.5406
16496	96.2254	1007.5318	80.5526	662.3587	140.2810
19778	96.2254	162.7704	19.4915	96.6441	28.4757
16584	96.1737	206.5866	43.5278	99.5119	41.5816
7213	96.1220	982.3286	81.0719	596.6911	156.4134
19458	96.1220	175.6176	45.8215	81.8809	28.5183
13934	96.0703	-9.7620	18.9704	108.1365	52.0482
2173	96.0703	6108.5984	663.8294	3420.8716	1129.3754
11157	96.0186	1426.7052	70.8267	1973.4101	332.9831
23173	96.0186	2830.0816	416.7392	1561.9613	463.9543
6808	96.0186	633.8266	119.9903	355.8146	97.7043
21927	95.9669	986.1244	93.9318	636.1205	133.3608
10919	95.9152	2262.2648	491.2299	842.8495	664.3673
18507	95.8635	845.7300	91.6336	509.8879	133.9074
19379	95.8635	483.4050	16.0720	371.4526	67.5500
20046	95.8118	36.0804	13.2519	9.6159	8.6421
11864	95.8118	53.4336	6.5507	86.2261	22.5507
22171	95.7601	459.3624	3.3321	481.9651	81.2899
4858	95.7601	26.0362	6.4666	-26.1668	33.6523

	24 hrs		•		0-01-WO/210548
		Mean Tox	SD Tox	Mean Nontox	SD Nontox
1977	99.2761	281.1560	19.9468	553.2170	108.9731
17383	99.2244	242.5684	60.2422	9.3550	26.2362
23651	99.0693	1262.3600	965.5064	38.3062	119.7939
18308	98.2420	364.6776	43.3971	726.0715	147.7221
20589	98.0869	686.0406	217.7915	147.0226	81.7174
18190	97.9835	61.2730	11.9914	142.6882	35.4957
20869	97.7249	191.1688	54.1307	61.7710	37.3905
12118	97.6215	1593.8502	366.4674	541.2085	291.0134
15003	97.2079	499.7730	126.9177	94.5838	190.8987
20862	97.2079	109.6054	9.1395	202.5150	51.9772
15002	97.1562	640.5422	115.1965	207.6172	187.0907
25801	97.1562	93.4938	32.8141	34.2978	17.5263
20872	97.0527	2107.4202	138.5598	1374.1089	298.2244
15876	97.0010	2286.4682	205.9736	1515.4745	242.0758
20855	97.0010	438.1068	58.9423	701.2188	121.6465
815	96.8459	2397.1246	164.5055	1484.6920	348.7453
24886	96.8459	2430.0154	191.4842	1650.1080	273.4053
20856	96.8459	660.1966	91.9345	1097.4267	184.9369
22321	96.7425	579.0476	242.9531	172.2432	91.8309
9620	96.7425	1309.2228	111.2494	796.0881	180.1810
13974	96.7425	950.2598	158.6988	537.7136	142.7811
9240 18881	96.6908	841.4074	37.9755	1171.9326	182.4209
25702	96.6391	43.1530	7.8137	18.5638	7.9904
17586	96.6391	1006.5474	52.0540	717.8472	132.1563
15867	96.4840 96.4840	168.2388	26.2737	99.2782	23.1224
17481	96.4323	76.8508	7.7156	39.3922	53.8512
16918	96.3806	44.0366	6.8639	8.6432	17.6908
468	96.3806	2701.6484	298.5475	1656.8293	390.8094
18307	96.3289	253.3670 77.1716	4.6985	335.6019	77.0161
2109	96.3289	1185.6356	18.0621	197.3083	62.0223
18569	96.2254	3600.5110	179.4987	756.7138	157.0759
20743	96.2254	103.6790	873.6649	1593.1738	595.1392
15135	96.1220	1536.2712	6.8918 135.8295	155.0261	28.0319
4222	96.1220	1291.4320	87.5453	994.3579	218.0367
13647	96.1220	1151.5724	181.5847	980.3590	130.9204
5667	96.0186	1612.5846	102.2626	559.6657 1149.1016	202.5750
3244	96.0186	120.3262	8.1327	176,4112	189.6771 33.5751
16847	95.9152	1577.3310	112.3690	1115.1014	
17159	95.9152	1572.3148	187.6344	1018.6373	190.3333
17100	95.7601	2047.7910	178.7334	1308.2477	243.3853
17729	95.7601	1918.3926	161.8414	1323.1157	293.8709 225.7358
18025	95.7601	123.1492	7.0280	183.1607	36.0667
23888	95.7084	111.4202	15.3955	56.8814	21.8637
21076	95.7084	76.1978	4.6504	123.0470	28.4901
1523	95.7084	122.9916	17.2852	212.2060	51.8349
15510	95.6567	189.7192	13.2887	281.2798	54.4113
690	95.6567	44.4970	1.2320	43.1497	21.6870
13646	95.6050	946.2256	83.5885	577.1178	155.8400
14966	95.6050	116.9316	18.4361	39.1802	45.8032
15387	95.5533	1127.9196	97.1354	765.4720	152.9382
				1 55.71 25	

Timepoint(s):	proterenolTox 24 hrs	Core Markers	Att	y. Ref. 44921-509	00-01-WO/2105485
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
·20056	95.5533	91.0126	16.1662	154.1554	29.1854
24885	95.5016	1825.4132	196.0255	1170.4232	257.0082
23889	95.4498	193.3960	50.6143	94.2180	32.1467
17380	95.4498	411.4880	45.1926	602.8949	
20839	95.3981	2157.4994	150.2386	1521.6955	
25686	95.3981	1409.5814	104.8654	970.9436	195.1788
17379	95.3981	300.4482	20.9956	439.7134	98.9308
14959	95.2947	1152.2914	74.7831	802.2623	158.5034
10109	95.2947	1758.3110	118.9654	1264.7123	227.5776
21377	95.1913	166.6046	15.3011	99.7410	31.3940
18387	95.1913	1591.3322	135.0484	2366.1538	453.0061
1892	95.1396	2186.4372	487.7466	1210.5009	391.5950
1876	95.1396	48.7360	3.7356	82.1938	24.3829
17374	95.1396	211.4694	5.6650	273.8754	58.5667
17303	95.0879	28.4336		41.9396	
3027	95.0362	2264.5632	150.9679	1608.7857	296.6061
17815	94.9845	25.1606	7.0400	6.0317	8.2944
17217	94.9845	335.5012	7.1145	405.3749	80.9328
18250	94.9328	2294.3592	147.3030	1649.1933	321.1304
1143	94.9328	83.5102	5.9807	128.6649	30.2698
23854	94.8294	1140.2992	146.7358	709.1314	172.4544
2812	94.8294	57.9592	3.3591	89.9564	24.8832
20810	94.7777	3017.1464	362.7701	2018.4821	406.7029
7593	94.7777	107.9794	13.5568	65.6747	22.4021
1728	94.7777	1063.3382	64.9909	1491.8039	266.1204
15052	94.7260	4286.7688	739.8015	2732.5401	638.0684
23606	94.7260	446.1930	36.8473	640.8500	109.2710
23783	94.7260	296.0890	15.7047	404.1912	68.2440
4459	94.7260	23.8026	3.2653	43.7754	15.8319
22	94.6743	23.2500	8.8763	108.2320	102.4995
15303	94.6225	121.2882	11.3289	215.2800	56.6663
21	94.5191	25.0396	2.4980	62.7119	52.7892
24814	94.5191	104.1916	8.7462	71.9542	16.6319
2008	94.5191	40.3384	1.9517	62.5625	33.9581
18319	94.5191	558.4844	27.1746	864.7216	243.3743
15202	94.5191	1683.4932	138.6406	1015.8598	357.1087
17494	94.5191	165.2608			
19244	94.4674	2381.5768		1810.0884	305.1647
21575	94.4674	185.8712	7.1711	142.3836	30.5794
15486	94.3640	15.8234	0.7048	26.0108	
10498	94.3640	1997.8460		1376.3590	
16023	94.3123	1098.3534	62.6343	1591.1177	334.1844
15468	94.2606	1764.6184	146.7957	1309.5903	219.7387
18305	94.2606	3179.0632	379.2372	2113.8723	
20178	94.2606	24.0734		-2.6341	30.9588
15626	94.2089	2696.1736		1808.3848	
18606	94.2089	1187.2666		822.6851	177.2054
18386	94.2089	1463.4778		2274.2335	
19456	99.0693	298.1502		1.7645	
22592	98.9659	758.3822		200.7379	
4048	98.8108	683.6852		15.8348	
4049	98.6556	1077.9050		38.8703	

Timepoint(s):				y. Ref. 44921-509	0-01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
4207	98.3454	290.4604	65.3118	122.1165	40.9110
2296	98.2937	379.8296	138.1372	119.8422	39.0667
11893	98.0352	180.3784	87.3723	3.6850	39.7708
2125	97.9317	488.2134	244.5406	109.2617	87.0160
16753	97.9317	228.0646	109.3065	-5.2427	64.2031
7650	97.8800	336.5038	126.0327	104.0033	39.0348
16394	97.8283	1953.5320	301.7161	776.7555	285.1212
24040	97.7766	978.5796	315.0650	371.7175	128.6161
8058	97.7249	518.1870	64.7283	315.9890	54.8417
4232	97.7249	507.8808	143.7363	185.4600	77.5704
21500	97.6732	302.2368	83.4080	88.8370	88.7562
6606	97.5181	5040.9788	864.8078	1862.0365	743.3288
22556	97.5181	73.0724	20.5771	20.3416	14.8252
22223	97.4147	52.9336	7.9327	223.7111	108.7679
6691	97.4147	347.9868	74.7675	156.4936	49.8047
4967	97.3630	88.9172	20.1806	36.4109	41.2124
4491	97.3113	153.5246	56.1239	46.1077	27.4902
14776	97.3113	288.4110	18.9884	444.9225	80.9918
13539	97.3113	183.1240	55.3367	74.3225	25.9366
15004	97.2596	972.5216	213.6666	334.0647	270.6975
3903	97.2596	34.9996	41.3641	-126.2066	69.6649
4074	97.0527	-0.9616	3.5722	63.0220	44.5968
17826	97.0010	41.9274	21.5602	4.8398	9.9495
23498	97.0010	224.7006	18.7019	366.4700	165.6921
16203	96.9493	78.9488	12.7853	139.5266	48.7555
18	96.9493	163.0158	11.9147	87.7965	33.5906
3505	96.9493	201.4542	43.7494	-34.7538	122.1253
24038	96.8976	512.3702	127.4492	214.5274	78.1911
18296	96.8976	264.4690	9.2486	176.4902	54.0493
2888	96.7942	572.6298	56.5113	985.9715	212.4677
14960	96.7425	2827.0198	325.2308	1623.3914	445.4860
21796	96.5874	546.7450	109.0500	267.5819	90.7752
10269	96.4840	3223.7554	534.9910	1981.1927	399.6866
20845	96.4323	756.6490	199.2139	283.6651	204.3095
8339	96.3806	67.1254	3.5227	109.8235	26.8107
8729	96.2771	37.7988	23.4009	-26.2680	25.5023
4670	96.2254	651.6486	37.0112	968.8950	197.5406
16496	96.2254	1007.5318	80.5526	662.3587	140.2810
19778	96.2254	162.7704	19.4915	96.6441	28.4757
16584	96.1737	206.5866	43.5278	99.5119	41.5816
7213	96.1220	982.3286	81.0719	596.6911	156.4134
19458	96.1220	175.6176	45.8215	81.8809	28.5183
13934	96.0703	-9.7620	18.9704	108.1365	52.0482
2173	96.0703	6108.5984	663.8294	3420.8716	1129.3754
11157	96.0186	1426.7052	70.8267	1973.4101	332.9831
23173	96.0186	2830.0816	416.7392	1561.9613	463.9543
6808	96.0186	633.8266	119.9903	355.8146	97.7043
21927	95.9669	986.1244	93.9318	636.1205	133.3608
10919	95.9152	2262.2648	491.2299	842.8495	664.3673
18507	95.8635	845.7300	91.6336	509.8879	133.9074
19379	95.8635	483.4050	16.0720	371.4526	67.5500
20046	95.8118	36.0804	13.2519	9.6159	8.6421

TABLE 5X: IsoproterenolTox Core Markers Timepoint(s): 24 hrs			Att	y. Ref. 44921-509	0-01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11864	95.8118	53.4336	6.5507	86.2261	22.5507
22171	95.7601	459.3624	3.3321	481.9651	81.2899
4858	95.7601	26.0362	6.4666	-26.1668	33.6523

•	ISOPROTERE	NOL	Att	y. Ref. 44921-509	0-01-WO/2105485
Timepoint(s GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12978	98.7552	352.9183	148.1483	76.0207	44.1639
15353.	98.7552	81.3138	17.4250	18.8333	16.0010
10071	98.7033	821.1028	124.3194	261.6078	96.5124
15191	98.5996	2781.0180	387.0119	163.7317	512.0743
18597	98.4959	499.5431	190.0962	91.7173	49.7384
21663	98.4440	1334.9931	249.2728	374.6519	167.2969
21654	98.4440	611.2753	171.5647	201.7092	64.9493
923	98.4440	90.8740	16.6163	16.7889	18.4273
18349	98.4440	478.1215	106.8624	173.0242	57.0200
15189	98.4440	1742.6363	442.7734	328.3733	338.7748
5297	98.3921	615.3920	146.7141	202.9419	86.0200
355	98.3921	144.1484	66.8185	9.0417	25.8332
19085	98.3402	105.9926	7.1071	51.9125	13.5311
14213	98.3402	81.8985	39.5920	5.9781	18.6993
15349	98.3402	33.7044	5.1757	5.5100	7.7175
606	98.1846	51.3164	25.3613	-42.5922	30.7423
9423	98.1328	553.7720	184.8660	164.9800	70.6014
23871	98.0809	97.1849	16.2049	41.7192	22.3572
17908	98.0290	175.6236	70.8006	43.3557	32.3530
24235	97.7178	502.2883	120.4755	200.2612	69.1510
16168	97.6660	419.3260	99.7763	174.7149	51.2477
23868	97.6141	878.2495	232.1880	212.7525	223.4270
4407	97.4585	149.4351	30.5043	76.4713	20.9009
21445	97.3548	101.0935	31.3816	10.1848	21.8312
16248	97.3548	137.3399	55.4662	59.6988	28.2691
12580	97.2510	39.1018	3.7604	19.4473	9.3645
21063	97.0954	269.1979	68.9186	138.1918	40.8935
2555	96.9917	102.6296	18.5182	45.7962	22.3728
15580	96.8880	20.8356	3.6311	57.5401	27.3956
21657	96.5249	1417.1173	72.5551	952.3487	227.6092
857	96.1100	28.9336	7.8593	10.3651	7.6321
12031	95.9025	122.3580	16.6208	79.3065	16.2251
13420	95.8506	741.9540	177.3292	447.9899	97.0308
21975	95.6950	379.2371	82.7804	179.8726	77.7814
18654	94.9170	91.0856	22.2450	218.8543	64.7382
22670	94.9170	87.7800	10.8918	58.5102	22.1820
15372	94.8133	276.3340	31.1240	196.9995	35.3333
23166	94.5539	174.9606	35.0933	108.1004	29.0997
21772	94.5021	31.5186	6.3787	53.9458	13.9213
17217	94.1390	220.3939	63.2378	406.5476	79.2552
20461	93.5166	39.6906	11.3937	86.3883	45.2957
1495	93.2054	58.7065	13.0068	97.8139	21.3675
20702	93.1017	62.6646	15.8674	150.4033	64.8806
6980	93.0498	73.5706	20.6392	148.6863	42.9104
12364	92.7386	78.0485	30.5955	150.6970	39.5405
22406	92.5311	32.1614	7.8468	71.1168	25.7014
15190	92.2977	1513.5051	492.4513	233.0620	318.7829
1609	92.2977	2384.3983	748.6648	861.9603	250.1131
11114	92.2459	107.3391	45.4225	30.9844	37.0615
18695	92.2459	186.5778	60.9505	34.3160	37.8180
23872	92.1940	254.0449	68.2202	53.3226	76.4607
11258	92.1421	76.6668	51.8112	7.9910	23.7166

LGC ID	LDA Score	Mean Tox	SD Tox	(08-pm N=-4	100
24431					SD Nontox
357	92.0902 92.0384			75.3299	74.672
24219	91.9865			24.7360	
8664	91.9346	700.8180		293.2780	
79		449.4940	184.1137	121.8197	232.348
2629	91.9087	12.5920	13.4528	46.8587	17.662
23869	91.7790	79.7505	28.9873	21.0142	16.118
2628	91.6234	191.3961	43.7164	41.5583	60.332
13930	91.6234	50.0411	22.4365	9.9134	14.536
16081	91.5716	341.2365	123.7107	109.7446	63.807
16173	91.4678	283.1665	71.6150	86.3178	64.810
21653	91.4678	135.4999	115.5643	12.7211	22.291
15558	91.4678	256.8784	47.5480	115.5382	39.511
	91.2863	400.9904	54.7628	284.1459	67.0559
24234	91.2604	178.7678	52.1777	76.5083	31.217 ⁻
17301	91.2344	244.7880	65.1023	503.6495	155.3687
1171	91.1826	12.3360	7.3422	42.4541	18.2492
19086	91.1566	182.9205	84.7158	74.4652	25.8672
3337	90.9751	32.8491	7.7769	56.5652	15.7571
15618	90.9492	170.6329	45.1415	99.3937	20.2053
5384	90.8973	221.5421	77.2111	41.6013	55.6977
25264	90.8973	227.0814	69.5155	87.0662	38.0346
21683	90.8454	148.5981	40.5336	48.4630	35.2076
16080	90.7936	127.7414	44.5598	16.1566	40.0453
15708	90.6898	37.3911	38.2594	5.3283	17.9073
21682	90.6380	52.7226	24.3565	-9.6802	55.4380
19481	90.6120	60.8750	24.6242	130.6872	42.4070
20735	90.5861	206.9780	37.1741	101.6782	47.8880
13005	90.5861	40.8021	15.7360	18.3284	7.0857
6478	90.5861	25.7568	8.7839	5.2883	15.5425
1146	90.5083	44.9031	8.1407	26.2567	11.3719
15299	90.4305	197.4190	65.7521	89.0845	56.6466
244	90.3786	156.3640	46.9174	62.8042	43.9511
4327	90.3786	167.6989	32.2599	91.1153	27.1878
1844	90.3786	273.3641	60.0557	161.2621	33.1657
15301	90.2749	275.3141	71.8896	99.3702	83.5499
21696	90.1712	248.2800	45.9105	148.8757	35.6262
23715	90.1712	50.0364	19.5135	9.8703	25.3169
11530	90.1193	574.8966	215.2208	208.9971	171.5733
1742	90.0674	92.4420	22.6140	32.5742	21.6654
18396	90.0156	120.3561	28.1293	42.0418	30.9956
21709	89.8081	404.6953	99.5321	253.0117	57.5390
18389	89.7562	2201.3679	666.7713	822.4031	450.9286
19040	89.7562	479.3534	100.1299	253.0582	74.9023
20981	89.6784	7.4018	4.3907	22.2741	10.9001
11940	89.6006	45.3046	7.7585	25.0555	8.4377
16871	89.4450	36.4405	7.8425	83.1332	23.8242
11153	89.3932	810.0581	106.9252	466.5159	161.7207
25770	89.3932	312.4753	89.7107	158.6471	58.7619
15051	99.0664	443.4744	120.1727	118.1688	105.2816
14380	99.0145	109.7573	20.4326	393.4073	117.0146
15212	98.9627	247.3969	36.9788	55.3243	36.9133
11522	98.9627	578.4656	132.9934	132.2183	69.5679

ΓABLE 5Y: Γimepoint(s	ISOPROTERE	NOL	Att	y. Ref. 44921-509	0-01-WO/210548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
10837	98.8071	313.3713			
3278	98.8071				36.855
22197	98.7552	318.3303	41.7592	1	
9452	98.7552	2066.7979	515.2685		47.292
12979	98.6515	1450.3701	617.2876	307.5710	195.987
6632	98.5996	264.5670	28.3884	123.5062	166.267
23005	98.5996	429.3003	118.3420	92.8878	41.064
16631	98.5996	454.1945	144.2120	63.0882	61.399
12999	98.5477	2114.0113	468.0488	323.5830	68.994 261.273
13634	98.5477	1799.7813	262.5017	816.4888	
22311	98.5477	430.7144	129.7666	141.0606	202.096
21632	98.5477	635.4675	93.9765	199.9939	46.354
23038	98.5477	223.4274	94.5228	19.4000	94.638
16053	98.4959	688.2729	332.0089		121.8662
23165	98.4959	511.6118	163.8996	114.3908	65.9618
10020	98.4959	245.6274	41.4642	162.7842	66.5254
11873	98.3921	526.2920	199.8569	116.6828	99.3943
13633	98.3921	720.9066		146.4113	112.8255
4725	98.3921	702.0448	85.3469	341.2228	109.8750
12581	98.2884	104.9441	322.4170	82.7935	80.9031
2459	98.2884	1557.5773	11.7630	46.5185	19.3381
22667	98.2365	195.3284	429.6716	118.6922	268.2199
3823	98.1846		32.8641	57.9737	39.4160
22666	98.1846	801.3471	113.8072	367.7490	92.1859
9583	98.0290	237.1916	41.8806	77.8696	37.2347
8477	97.9772	311.3110	95.8546	75.2475	55.2575
20035	97.9253	1390.6749	243.1126	591.4111	173.1700
657		475.5420	132.6227	167.5188	63.9564
3014	97.8734	486.1475	140.5853	223.6214	55.7424
21019	97.8216	67.7219	23.1470	250.0182	74.2719
. 4285	97.8216	90.2080	16.7173	30.2218	21.6609
2708	97.8216	162.4419	20.6060	304.2127	62.7546
	97.7697	1175.8810	187.4086	654.7607	118.6857
22248	97.7178	884.1129	234.6878	357.8314	137.9962
22596	97.6660	118.2271	12.3468	69.8706	18.3731
23567	97.5104	182.7065	33.4229	45.1516	63.5584
5442	97.4585	144.7093	59.1476	432.4571	111.2343
22939	97.4066	-22.5254	16.7130	77.9927	39.0291
13460	97.3548	163.2601	30.5731	334.8609	66.5139
5461	97.1992	270.5833	66.6813	117.8721	40.8380
22378	97.0954	125.3759	37.6062	272.2137	61.3862
22711	97.0954	131.2524	15.0016	230.5375	46.7545
3434	97.0436	2080.6321	375.1512	754.8197	380.5227
11325	96.7842	18.5315	6.2871	67.2413	34.5907
14094	96.5249	62.1649	6.0106	101.0184	19.5343
2519	96.4730	115.4741	15.6764	66.6505	20.7364
7493	96.4212	180.9653	38.9298	78.5313	34.8173
7451	96.4212	550.1054	54.2374	375.8753	61.5990
4861	96.4212	86.1575	14.1922	174.6200	
22247	96.3693	1014.8936	169.8130		46.5278
3738	96.3174	414.7075	62.2150	585.7927 214.5883	159.2645
12233	96.3174	226.4356	57.4500		63.7076
		~20.7000	37.4300	105.7821	47.8050

TABLE 5Z: Iso Timepoint(s):	3, 6 hrs		Atty.	Ref. 44921-5090-	01-WO/2105485
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox
20448		735.8648	361.8894	74.8274	112.6130
12978	98.7552	352.9183		76.0207	44.1639
15353	98.7552	81.3138	17.4250		
10071	98.7033	821.1028	124.3194	261.6078	
15191	98.5996	2781.0180	387.0119	163.7317	512.0743
20449	98.5477	998.4564	497.2317	98.8724	167.8554
18597	98.4959	499.5431	190.0962	91.7173	49.7384
21663	98.4440	1334.9931	249.2728	374.6519	167.2969
21654	98.4440	611.2753	171.5647	201.7092	64.9493
923	98.4440	90.8740	16.6163	16.7889	18.4273
18349	98.4440	478.1215	106.8624	173.0242	57.0200
15189	98.4440	1742.6363	442.7734	328.3733	338.7748
5297	98.3921	615.3920	146.7141	202.9419	86.0200
355	98.3921	144.1484	66.8185	9.0417	25.8332
19085	98.3402	105.9926	7.1071	51.9125	13.5311
14213	98.3402	81.8985	39.5920	5.9781	18.6993
15349	98.3402	33.7044	5.1757	5.5100	7.7175
606	98.1846	51.3164	25.3613	-42.5922	30.7423
9423	98.1328	553.7720	184.8660	164.9800	70.6014
23871	98.0809	97.1849	16.2049	41.7192	22.3572
17908	98.0290	175.6236	70.8006	43.3557	32.3530
17161	98.0290	899.1763	458.1172	200.9148	106.0668
15002	97.9253	1147.2365	305.9131	202.0650	167.6146
15003	97.8734	1127.1396	424.1492	88.1165	165.1318
6477	97.7697	28.2950	13.0796	4.5515	17.6521
24235	97.7178	502.2883	120.4755	200.2612	69.1510
16168	97.6660	419.3260	99.7763	174.7149	51.2477
23868	97.6141	878.2495	232.1880	212.7525	223.4270
17401	97.4585	1283.2069	160.7080	602.9406	233.5276
4407	97.4585	149.4351	30.5043	76.4713	20.9009
21445	97.3548	101.0935	31.3816	10.1848	21.8312
16248	97.3548	137.3399	55.4662	59.6988	28.2691
12580	97.2510	39.1018	3.7604	19.4473	9.3645
11531	97.1992	1234.1090	315.0112	403.7401	287.9205
21063	97.0954	269.1979	68.9186	138.1918	40.8935
2555	96.9917	102.6296	18.5182	45.7962	22.3728
15580	96.8880	20.8356	3.6311	57.5401	27.3956
574	96.7324	1198.1129	265.6557	601.0594	148.9908
21657	96.5249	1417.1173	72.5551	952.3487	227.6092
857	96.1100	28.9336	7.8593	10.3651	7.6321
12031	95.9025	122.3580	16.6208	79.3065	
13420	95.8506	741.9540	177.3292	447.9899	16.2251 97.0308
21975	95.6950	379.2371	82.7804		
18654	94.9170	91.0856	22.2450	179.8726 218.8543	77.7814
22670	94.9170	87.7800	10.8918		64.7382 22.1820
15372	94.8133	276.3340	31.1240	58.5102 196.9995	35.3333
23166	94.5539	174.9606			
21772	94.5021	31.5186	35.0933	108.1004	29.0997 13.9213
17217	94.1390	220.3939	6.3787	53.9458	79.2552
20461	93.5166		63.2378	406.5476	
1495	93.2054	39.6906	11.3937	86.3883	45.2957
20702		58.7065	13.0068	97.8139	21.3675
20102	93.1017	62.6646	15.8674	. 150.4033	64.8806

imepoint(s):	I DA Saara	INA			
	LDA Score	Mean Tox		Mean Nontox	SD Nontox
6980	93.0498			148.6863	
12364	92.7386			150.6970	
22406	92.5311	32.1614		71.1168	25.7014
20743	92.4274		15.2831	155.1691	27.9319
15190	92.2977	1513.5051	492.4513	233.0620	318.7829
1609	92.2977	2384.3983	748.6648	861.9603	250.1131
11114	92.2459	107.3391	45.4225	30.9844	37.0615
18695	92.2459	186.5778	60.9505	34.3160	37.8180
23872	92.1940	254.0449	68.2202	53.3226	76.4607
11258	92.1421	76.6668	51.8112	7.9910	23.7166
24431	92.0902	246.7884	51.7590	75.3299	74.6725
357	92.0384	131.7186	56.3783	24.7360	14.8555
24219	91.9865	700.8180	165.0733	293.2780	76.0644
8664	91.9346	449.4940	184.1137	121.8197	232.3482
79	91.9087	12.5920	13.4528	46.8587	17.6624
2629	91.7790	79.7505	28.9873	21.0142	16.1187
23869	91.6234	191.3961	43.7164	41.5583	60.3323
2628	91.6234	50.0411	22.4365	9.9134	14.5363
13930	91.5716	341.2365	123.7107	109.7446	63.8078
16081	91.4678	283.1665	71.6150	86.3178	64.8101
16173	91.4678	135.4999	115.5643	12.7211	22.2919
21653	91.4678	256.8784	47.5480	115.5382	39.5117
15558	91.2863	400.9904	54.7628	284.1459	67.0559
24234	91.2604	178.7678	52.1777	76.5083	31.2171
17301	91.2344	244.7880	65.1023	503.6495	155.3687
1171	91.1826	12.3360	7.3422	42.4541	18.2492
19086	91.1566	182.9205	84.7158	74.4652	25.8672
3337	90.9751	32.8491	7.7769	56.5652	15.7571
15618	90.9492	170.6329	45.1415	99.3937	20.2053
5384	90.8973	221.5421	77.2111	41.6013	55.6977
25264	90.8973	227.0814	69.5155	87.0662	38.0346
21683	90.8454	148.5981	40.5336	48.4630	35.2076
16080	90.7936	127.7414	44.5598	16.1566	40.0453
15708	90.6898	37.3911	38.2594	5.3283	17.9073
21682	90.6380	52.7226	24.3565	-9.6802	55.4380
19481	90.6120	60.8750	24.6242	130.6872	42.4070
20735	90.5861	206.9780	37.1741	101.6782	47.8880
13005	90.5861	40.8021	15.7360	18.3284	7.0857
6478	90.5861	25.7568	8.7839	5.2883	15.5425
1146	90.5083	44.9031	8.1407	26.2567	11.3719
17735	90.4824	2633.2529	624.1825	1096.1175	562.1722
15299	90.4305	197.4190	65.7521	89.0845	56.6466
244	90.3786	156.3640	46.9174	62.8042	43.9511
4327	90.3786	167.6989	32.2599	91.1153	27.1878
1844	90.3786	273.3641	60.0557	161.2621	33.1657
15301	90.2749	275.3141	71.8896	99.3702	83.5499
21696	90.1712	248.2800	45.9105	148.8757	35.6262
23715	90.1712	50.0364	19.5135	9.8703	25.3169
15051	99.0664	443.4744	120.1727	118.1688	105.2816
14380	99.0145	109.7573	20.4326	393.4073	117.0146
15212	98.9627	247.3969	36.9788	55.3243	36.9133
11522	98.9627	578.4656	132.9934	132.2183	69.5679

TABLE 5Z: isoproterenol-Core Tox Timepoint(s): 3, 6 hrs			Atty. Ref. 44921-5090-01-WO/210548			
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox	
10837	98.8071	313.3713	78.4539	83.4558		
3278	98.8071	657.2108	312.5556			
22197	98.7552	318.3303	41.7592	117.6359		
9452	98.7552	2066.7979	515.2685	256.7530		
12979	98.6515	1450.3701	617.2876	307.5710	166.2674	
6632	98.5996	264.5670	28.3884	123.5062	41.0642	
23005	98.5996	429.3003	118.3420	92.8878	61.3990	
16631	98.5996	454.1945	144.2120	63.0882	68.9947	
12999	98.5477	2114.0113	468.0488	323.5830	261.2734	
13634	98.5477	1799.7813	262.5017	816.4888	202.0960	
22311	98.5477	430.7144	129.7666	141.0606	46.3543	
21632	98.5477	635.4675	93.9765	199.9939	94.6385	
23038	98.5477	223.4274	94.5228	19.4000	121.8662	
16053	98.4959	688.2729	332.0089	114.3908	65.9618	
23165	98.4959	511.6118	163.8996	162.7842	66.5254	
10020	98.4959	245.6274	41.4642	116.6828	99.3943	
11873	98.3921	526.2920	199.8569	146.4113	112.8255	
13633	98.3921	720.9066	85.3469	341.2228	109.8750	
4725	98.3921	702.0448	322.4170	82.7935	80.9031	
18830	98.3402	7951.0865	1512.4960	3660.0327	894.6208	
12581	98.2884	104.9441	11.7630	46.5185	19.3381	
2459	98.2884	1557.5773	429.6716	118.6922	268.2199	
22667	98.2365	195.3284	32.8641	57.9737	39.4160	
3823	98.1846	801.3471	113.8072	367.7490	92.1859	
22666	98.1846	237.1916	41.8806	77.8696	37.2347	
9583	98.0290	311.3110	95.8546	75.2475	55.2575	
8477	97.9772	1390.6749	243.1126	591.4111	173.1700	
15004	97.9253	1643.2824	595.2255	326.5114	242.7752	
22432	97.9253	247.4485	31.3929	123.2399	35.0023	
20035	97.9253	475.5420	132.6227	167.5188	63.9564	
657	97.8734	486.1475	140.5853	223.6214	55.7424	
3014	97.8216	67.7219	23.1470	250.0182	74.2719	
21019	97.8216	90.2080	16.7173	30.2218	21.6609	
4285	97.8216	162.4419	20.6060	304.2127	62.7546	
20086	97.7697	672.3814	66.6413	325.3166	119.2784	
2708	97.7697	1175.8810	187.4086	654.7607	118.6857	
21796	97.7178	588.2593	92.7064	266.3687	88.3268	
22248	97.7178	884.1129	234.6878	357.8314	137.9962	
22596	97.6660	118.2271	12.3468	69.8706	18.3731	
23567	97.5104	182.7065	33.4229	45.1516	63.5584	
5442	97.4585	144.7093	59.1476	432.4571	111.2343	
22939	97.4066	-22.5254	16.7130	77.9927	39.0291	
13460	97.3548	163.2601	30.5731	334.8609	66.5139	
5461	97.1992	270.5833	66.6813	117.8721	40.8380	
22378	97.0954	125.3759	37.6062	272.2137	61.3862	
22711	97.0954	131.2524	15.0016	230.5375	46.7545	
3434	97.0436	2080.6321	375.1512	754.8197	380.5227	
11325	96.7842	18.5315	6.2871	67.2413		
14094	96.5249	62.1649	6.0106	101.0184	34.5907	
4420	96.5249	259.2045	27.0460	447.5475	19.5343	
					93.3492	
2519	96.4730	115.4741	15.6764	66.6505	20.7364	

TABLE 5Z: Isoproterenol-Core Tox			Atty. Ref. 44921-5090-01-WO/2105485			
Timepoint(s): 3, 6 hrs					•	
GLGC ID LDA Score Mean Tox			SD Tox	Mean Nontox	SD Nontox	
7451	96.4212	550.1054	54.2374	375.8753	61.5990	
4861			14.1922	174.6200	46.5278	
22247	96.3693	1014.8936	169.8130	585.7927	159.2645	
3738	96.3174	414.7075	62.2150	214.5883	63.7076	
12233	96.3174	226.4356	57.4500	105.7821	47.8050	

TABLE 5AA: MINOXIDIL Atty. Ref. 44921-5090-01-WO/210546 Timepoint(s): 24, 360 hrs						
LGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
17159	97.9296	1535.1755	76.9139	1018.2949	243.6029	
13486	94.7205	111.6373	12.2897	62.1586	24.2603	
19101	92.5983	122.8642	21.7259	204.4361	48.1276	
4739	92.3395	86.8648	11.3728	57.5600	18.1403	
18352	91.7184	1509.5612	194.6524		225.6242	
17257	91.4596	489.6277	39.4658		115.5172	
20889	89.9068	191.0543	22.3705	290.7158	82.0058	
19077	89.8551	104.0118	22.2276	64.1095	30.6956	
653	89.8033	58.0272	12.7224	113.7814	42.1623	
22306	89.8033	118.8083	6.6397	97.5426	27.7850	
20519	89.6480	247.3042	32.4829	184.0616	41.4326	
2114	89.5445	102.2935	19.1370	63.3928	27.2316	
278	89.3375	28.2742	1.4531	21.2334		
24849	89.1304	57.0278	15.2284	26.7227	10.4896 18.9685	
23481	88.6128	180.5617	37.1558	279.0484		
15247	88.3540	594.1170	90.9858	1036.0101	69.0602	
4556	88.3023	57.4057	5.5534		387.3794	
4447	88.2505	6.5295	4.3706	73.5059	14.2452	
21830	88.1988	22.2358	13.4090	22.5996	11.6781	
22845	87.9917	972.4108	249.9982	6.4232	13.2608	
14004	87.9917	6.1840		663.3576	133.7391	
1496	87.8882	38.5365	3.9783	20.6089	11.3367	
19279	87.7329	148.6213	3.3711	30.4905	10.1674	
24329	87.6294		8.3623	175.1188	22.8916	
3446	87.6294	177.1675	35.5945	115.9628	50.3133	
22584	87.6294	21.0733	5.0581	35.2549	11.3903	
1324	87.2153	27.7973	1.6250	30.4191	13.5657	
16217	87.1118	461.6210	49.8053	604.8895	117.9678	
15049	87.1118	3824.9220	882.7480	2319.0562	624.0469	
1323	87.1118	4504.9502	852.5258	3170.1238	567.3331	
18499	87.0600	74.5447	34.6738	184.6947	78.3095	
18317		149.7308	36.8585	84.3176	23.5573	
24232	86.8530	266.9008	101.6113	637.2423	290.5617	
	86.7495	107.0823	23.2712	53.3905	21.7130	
17136	86.6977	765.2605	188.8314	518.4444	370.7999	
15203	86.5424	209.2850	18.7806	175.4825	31.2844	
15767	86.5424	153.3083	19.9098	214.1710	51.9186	
20619	86.5424	8.4417	3.6252	22.0994	13.3336	
24470	86.4907	5199.1175	1173.8016	3543.3523	655.6704	
638	86.3872	220.1460	41.7079	154.1979	27.6018	
20704	86.2836	55.3490	10.3700	38.4184	13.4073	
38	86.2836	39.8378	5.5516	26.8456	15.6675	
1495	86.2836	78.0432	7.0184	97.6129	21.6056	
8597	86.1284	196.5925	21.7031	158.7965	41.7885	
16220	86.0248	3307.8400	955.9316	1861.1020	637.3267	
3015	85.7660	3456.6195	319.6428	2832.5081	571.0351	
15273	85.7660	7.8428	8.3445	41.9616	33.9196	
25802	85.7143	870.9612	173.0430	599.6281	153.6135	
24676	85.6625	78.1665	66.5388	29.2018	42.2911	
15052	85.6625	2988.2460	1447.5559	2738.9965	641.1183	
6425	85.6625	133.3380	19.8127	171.6206	37.1599	
24854	85.6108	9986.6790	3057.9794	5883.6151	2004.8095	
20243	85.6108	102.1265	13.6846	145.6152	39.4919	

	TABLE 5AA: MINOXIDIL Atty. Ref. 44921-5090-01-WO/21054 Timepoint(s): 24, 360 hrs					
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
18066		29.1457	2.4528	24.3851		
4748	85.5590	10.3340	6.7481	44.5435	10.5830	
23347	1	51.3743		75.7981	44.7903	
25743	85.4555	10896.4638	3468.3621		18.3704	
225	85.4555	118.1477	6.9233	6169.2740 100.7150	2236.3347	
13723	85.4037	5941.5757	1135.6019	4146.5143	24.0142	
18400	85.4037	23.9422	3.9205	35.5996	930.0375 11.7212	
15693	85.3520	41.9673	17.0293	11.3160	12.6595	
19053	85.3520	7254.8842	1634,9432	4760.8397	1174.8799	
18175	85.3520	1215.6852	370.8997	1104.2417	184.1830	
7125	85.3002	6166.8172	1368.3779	4046.9460	1056.8198	
16135	85.2484	10911.3320	3922.1706	5965.1645	2441.7735	
2008	85.2484	27.9260	9.9940	62.6626	33.8959	
20579	85.2484	297.5433	17.8361	330.2801	72.3142	
25470	85.1967	48.7750	31.1751	113.5910	50.2175	
15829	85.0932	9.4337	4.3052	51.1893	73.5987	
492	85.0932	278.1547	97.2279	204.4257	142.3758	
17160	85.0414	2458.4503	584.9161	1701.4877	418.3734	
15688	85.0414	20.8720	10.3842	3.8851	12.5812	
2006	85.0414	15.7493	11.3731	48.6313	34.3839	
1426	84.9896	138.3758	10.2143	164.7051	26.7628	
14694	84.8861	8305.6658	1969.5601	5139.4218	1603.5780	
1473	84.8344	55.8370	61.7688	87.6367	37.7793	
20856	. 84.8344	894.7287	94.8152	1096.4226	186.9748	
574	84.7826	891.9672	157.5993	604.1970	157.9704	
457	84.7826	248.1988	59.0873	158.7303	42.8702	
8417	84.7826	6221.1195	1255.4826	4274.3303	1041.5922	
21715	84.7826	22.1428	13.6070	16.2253	8.1616	
19962	84.7826	226.9462	21.9785	185.0458	47.1174	
17146	84.7826	-18.3883	21.4537	25.1069	46.3683	
12349	84.7308	10182.5327	2968.3730	6241.6225	2082.2998	
14973	84.6791	-6.8377	19.9513	35.9551	37.2450	
20554	84.6791	95.3840	10.5063	75.2273	36.9955	
16476	84.6273	8890.1327	2400.0048	5819.3897	1786.9339	
18761	84.5756	280.9035	65.6858	183.3302	52.5721	
1352	84.5756	29.7100	6:0583	42.8774	11.5999	
15106	84.4720	2774.0492	1085.5440	2609.7190	530.2224	
22567	84.4203	126.3540	15.3602	99.1372	25.0108	
17039	84.3685	289.4128	117.4056	481.3267	112.7896	
16017	84.3685	134.7493	10.8127	116.8148	30.1731	
18956	84.3685	127.6873	13.5706	174.9933	58.0411	
1852	84.3168	3436.9930	678.2439	2513.5506	495.5841	
23895	84.2650	26.6828	4.2999	17.5019	8.6704	
25679	84.2650	1560.7147	84.3130	1414.3321	275.4721	
1502	84.2133	42.7670	3.5109	53.1598	20.5090	
7602	84.1615	686.2697	64.4793	525.7856	87.1102	
15343	84.1615	116.0975	11.6612	141.1608	26.3964	
23585	84.1097	32.9085	23.8997	26.0858	10.7947	
19006	94.7205	1785.7690	198.2123	1058.7331	328.0473	
8815	94.2547	388.5743	27.2550	259.0826	76.3901	
11723	93.9441	55.8792	10.0073	4.4362	31.9769	
15365	93.8923	1108.1207	492.5541	1030.5675	215.3048	

	: MINOXIDIL s): 24, 360 hrs		Atty. I	Ref. 44921-5090-0	1-WO/210548
SLGC ID	LDA Score		SD Tox	Mean Nontox	SD Nontox
2088	92.9607	485.9728	85.8473	307.2277	85.7764
22691	92.6501	1390.9820	238.5001	919.3204	239.7806
14869	92.1325	123.3242	6.6322	88.7640	36.0959
16984	92.1325	329.9662	62.9378	602.8346	177.1319
6168	92.0807	76.9700	5.1471	53.9067	19.3694
19004	91.8219	1833.6993	213.7395	1107.2121	448.3080
4177	91.7702	322.1253	33.4508	486.6640	117.9772
20632	91.6149	91.8260	37.3026	192.7485	55.4387
13427	91.2526	4.5580	12.9423	23.9666	12.5307
2541	90.8903	67.8027	17.9265	24.7398	26.4131
2534	90.8385	28.0445	4.0410	47.2322	13.7237
9806	90.4762	10.4643	11.4493	34.3519	14.8863
12298	90.3209	86.3223	32.0470	161.8749	46.4191
17013	90.2174	85.4747	9.4603	122.4431	30.6685
13627	90.0104	75.7057	5.4585	55.9724	31.3140
8039	89.8033	183.8938	14.1961	139.0876	49.8228
9914	89.6998	-0.4020	34.7773	72.2003	56.1763
8854	89.6480	67.5712	6.2645	50.3999	28.1094
5421	89.5963	374.9627	38.3972	283.4432	148.7481
11791	89.5445	108.2222	7.7685	139.8817	32.9493
7842	89.5445	2.6935	8.9314	25.5130	14.7431
12346	89.5445	472.4318	59.0587	678.7885	440.2343
2612	89.4410	36.9472	5.5990	57.8448	17.5537
13622	89.0787	375.5315	43.6054	253.3860	94.4454
5983	88.9752	311.8697	61.2478	585.0836	201.7810
18643	88.8716	239.7207	20.7273	306.2247	60.9991
22033	88.8716	132.9733	8.2770	174.4417	52.8980
5007	88.8716	572.3495	40.5614	739.8550	164.1606
7011	88.7681	236.2587	24.5283	327.1433	72.6244
12305	88.7164	184.9173	25.1616	131.5672	39.8234
3904	88.5611	227.7152	28.3711	135.5882	94.2873
6649	88.5611	-10.8562	23.5637	32.7590	148.9578
3836	88.5093	3826.9087	290.6592	2981.9296	664.5439
498	88.4576	888.2553	81.8895	700.3447	149.0531
17330	88.2505	91.7602	13.7975	59.3632	23.0230
7852	88.2505	106.6953	105.2722	312.2733	70,4524
23027	88.1988	45.5408	2.7099	52.7099	36.7406
9305	88.0952	123.7258	5.2230	142.3025	30.6411
26114	87.9917	219.1497	24.9829	210.3639	119.0981
13928	87.9400	333.4505	72.3694	529.8971	149.5635
6455	87.8882	314.3333	78.4011	196.3007	97.3929
22942	87.8364	134.9742	30.7739	193.5716	44.6292
22882	87.8364	100.1367	30.4959	165.3614	46.6765

	TABLE 5BB: Minoxidil—Core Tox Markers Atty. Ref. 44921-5090-01-WO/210548 Timepoint(s): 24, 360 hrs								
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox				
17159	97.9296			<u> </u>					
13486	94.7205	111.6373							
21239	94.3064	22.3625	26.2908		63.2600				
16426	93.7371	2794.4317	568.1511						
20740	93.3230	658.5560	67.8767	450.2627	144.3448				
21818	93.2195	67.1282	17.1294	35.9466					
19101	92.5983	122.8642	21.7259	204.4361	48.1276				
4739	92.3395	86.8648	11.3728	57.5600	18.1403				
18352	91.7184	1509.5612	194.6524	1119.9762	225.6242				
17257	91.4596	489.6277	39.4658	. 363.6353	115.5172				
25094	90.8903	180.9713	12.3123	130.5678	45.9415				
22762	90.5797	16.6943	4.8300	38.5006	16.7286				
15098	90.5797	40.3148	6.5807	80.3784	48.0732				
20889	89.9068	191.0543	22.3705	290.7158	82.0058				
19077	89.8551	104.0118	22.2276	64.1095	30.6956				
653	89.8033	58.0272	12.7224	113.7814	42.1623				
22306	89.8033	118.8083	6.6397	97.5426	27.7850				
20519	89.6480	247.3042	32.4829	184.0616	41.4326				
2114	89.5445	102.2935	19.1370	63.3928	27.2316				
278	89.3375	28.2742	1.4531	21.2334	10.4896				
4749	89.3375	118.0348	10.6809	199.1591	80.4388				
24849	89.1304	57.0278	15.2284	26.7227	18.9685				
24106	89.1304	16.5707	2.1016	27.3165	10.7777				
15569	88.9752	515.0702	33.0112	450.4971	188.3790				
23481	88.6128	180.5617	37.1558	279.0484	69.0602				
15247	88.3540	594.1170	90.9858	1036.0101	387.3794				
4556	88.3023	57.4057	5.5534	73.5059	14.2452				
4447	88.2505	6.5295	4.3706	22.5996	11.6781				
21830	88.1988	22.2358	13.4090	6.4232	13.2608				
22845	87.9917	972.4108	249.9982	663.3576	133.7391				
14004	87.9917	6.1840	3.9783	20.6089	11.3367				
18500	87.8882	417.7607	156.7008	261.4327	60.1646				
2005	87.8882	15.2705	9.9215	40.6188	18.0238				
1496 19279	87.8882	38.5365	3.3711	30.4905	10.1674				
24329	87.7329 87.6294	148.6213	8.3623	175.1188	22.8916				
3446		177.1675	35.5945	115.9628	50.3133				
22584	87.6294 87.6294	21.0733	5.0581	35.2549	11.3903				
1514		27.7973	1.6250	30.4191	13.5657				
1324	87.3706	350.3045	76.6199	236.9005	131.7093				
16217	87.2153	461.6210	49.8053	604.8895	117.9678				
15049	87.1118	3824.9220	882.7480	2319.0562	624.0469				
22773	87.1118 87.1118	4504.9502	852.5258	3170.1238	567.3331				
1323	87.1118	770.9792	186.8368	456.0336	110.1548				
16130	87.0600	74.5447	34.6738	184.6947	78.3095				
18499	87.0600	11743.3033 149.7308	4153.6583	5911.3587	2296.0001				
25319	86.9565	15949.7140	36.8585	84.3176	23.5573				
18317	86.8530	266.9008	5786.8404	8021.2090	3356.7757				
24232	86.7495	107.0823	101.6113	637.2423	290.5617				
17136	86.6977		23.2712	53.3905	21.7130				
15203	86.5424	765.2605	188.8314	518.4444	370.7999				
15767	86.5424	209.2850	18.7806	175.4825	31.2844				
10/0/	00.5424	153.3083	19.9098	214.1710	51.9186				

	TABLE 5BB: Minoxidil-Core Tox Markers Atty. Ref. 44921-5090-01-WO/2105488 Timepoint(s): 24, 360 hrs							
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox			
20619	86.5424	8.4417	3.6252	22.0994	13.3336			
24470	86.4907	5199.1175	1173.8016	3543.3523	655.6704			
8641	86.4907	206.6823	28.5084	319.4634				
25050	86.3872	9783.8722	2938.9524	4904.4341	1867.2089			
638	86.3872	220.1460	41.7079	154.1979	27.6018			
20704	86.2836	55.3490	10.3700	38.4184	13.4073			
38	86.2836	39.8378	5.5516	26.8456	15.6675			
1495	86.2836	78.0432	7.0184	97.6129	21.6056			
14983	86.1801	15391.6560	5866.9293	7271.2874	3760.1150			
17908	86.1801	14.8280	7.8844	44.6283	34.9133			
8597	86.1284	196.5925	21.7031	158.7965	41.7885			
16220	86.0248	3307.8400	955.9316	1861.1020	637.3267			
20848	86.0248	1885.2807	179.2060	1611.7709	278.3017			
18644	85.9213	6525.7058	2192.4313	3783.2014	1348.4227			
600	85.9213	263.1263	18.4761	327.9509	63.1450			
3015	85.7660	3456.6195	319.6428	2832.5081	571.0351			
15273	85.7660	7.8428	8.3445	41.9616	33.9196			
16312	85.7660	36.0062	8.4127	68.2350	37.3538			
15886	85.7660	489.1110	29.4380	405.7301	96.6313			
21583	85.7143	649.1815		367.9905	122.3493			
25802	85.7143	870.9612		599.6281	153.6135			
24676	85.6625	78.1665		29.2018	42.2911			
15052	85.6625	2988.2460		2738.9965	641.1183			
6425	85.6625	133.3380	19.8127	171.6206	37.1599			
19421	85.6108	10187.8595	2889.2061	5515.1032	2050.0750			
24854	85.6108	9986.6790	3057.9794	5883.6151	2004.8095			
20243	85.6108	102.1265	13.6846	145.6152	39.4919			
18066	85.6108	29.1457	2.4528	24.3851	10.5830			
4748	85.5590	10.3340	6.7481	44.5435	44.7903			
15185	85.5072	1365.5805	220.1448	930.1042	185.4481			
23347	85.5072	51.3743	12.1529	75.7981	18.3704			
25743	85.4555	10896.4638	3468.3621	6169.2740	2236.3347			
225	85.4555	118.1477	6.9233	100.7150	24.0142			
25439	85.4037	9451.4727	3142.0210	5039.2187	2135.4098			
13723	85.4037	5941.5757	1135.6019	4146.5143	930.0375			
18400	85.4037	23.9422	3.9205	35.5996	11.7212			
15693	85.3520	41.9673		11.3160	12.6595			
19053	85.3520	7254.8842	1634.9432	4760.8397	1174.8799			
18175	85.3520	1215.6852	370.8997	1104.2417	184.1830			
7125	85.3002	6166.8172	1368.3779	4046.9460	1056.8198			
16135	85.2484	10911.3320	3922.1706	5965.1645	2441.7735			
2008	85.2484	27.9260	9.9940	62.6626	33.8959			
20579	85.2484	297.5433	17.8361	330.2801	72.3142			
16001	85.1967	15974.5118	5460.2030	8722.9676	3508.9738			
25470	85.1967	48.7750	31.1751	113.5910	50.2175			
15829	85.0932	9.4337	4.3052	51.1893	73.5987			
21152	85.0932	13313.3515	3985.4397	7030.1502	2975.0295			
25051	85.0932	10025.3403	2691.1454	5378.7115	1991.5350			
4330	99.6894	1252.8993	159.2015	451.2431	125.8274			
14668	96.0145	112.8827	12.5993	59.0254	21.3859			
2757	95.5487	1366.7942	213.6854	812.0674	245.0921			
19006	94.7205	1785.7690	198.2123	1058.7331	328.0473			
19000	34.7200	1705.7090	198.2123	1058./331	328.0473			

ABLE 5BB: MinoxidilCore Tox Markers Atty. Ref. 44921-5090-01-WO/21 imepoint(s): 24, 360 hrs							
		Mean Tox	SD Tox	Mean Nontox	SD Nontox		
8815	94.2547	388.5743			76.390		
11723	93.9441	55.8792		4.4362			
15365	93.8923	1108.1207		1030.5675			
18831	93.8923	3436.3307	405.7014	2495.9422	667.421		
2088	92.9607	485.9728		307.2277	85.776		
19480	92.9089	2041.7307	65.2682	1674.6607	379.880		
3088	92.8054	36.3220	2.5840	55.6612	29.250		
22691	92.6501	1390.9820	238.5001	919.3204	239.780		
24128	92.6501	298.9320	9.0540	234.2646	172.1699		
22915	92.3913	157.3257	6.9909	129.3154	27.7499		
14869	92.1325	123.3242	6.6322	88.7640	36.0959		
16984	92.1325	329.9662	62.9378	602.8346	177.1319		
6168	92.0807	76.9700	5.1471	53.9067	19.3694		
6638	91.9772	100.7265	19.7930	178.9038	53.2986		
19004	91.8219	1833.6993	213.7395	1107.2121	448.3080		
4177	91.7702	322.1253	33.4508	486.6640			
20632	91.6149	91.8260	37.3026	192.7485	117.9772		
16124	91.3043	131.6897	19.9910		55.4387		
13427	91.2526	4.5580	12.9423	232.3437	95.2916		
2541	90.8903	67.8027		23.9666	12.5307		
2534	90.8385	28.0445	17.9265	24.7398	26.4131		
6282	90.6832		4.0410	47.2322	13.7237		
9806	90.4762	222.7068	17.6865	161.6796	56.2408		
5969		10.4643	11.4493	34.3519	14.8863		
12298	90.3727	289.7607	31.3499	429.4605	123.9606		
3014	90.3209	86.3223	32.0470	161.8749	46.4191		
17013	90.2174	167.0213	17.4882	249.0241	75.7553		
13627		85.4747	9.4603	122.4431	30.6685		
	90.0104	75.7057	5.4585	55.9724	31.3140		
8039	89.8033	183.8938	14.1961	139.0876	49.8228		
9914	89.6998	-0.4020	34.7773	72.2003	56.1763		
8854	89.6480	67.5712	6.2645	50.3999	28.1094		
5421	89.5963	374.9627	38.3972	283.4432	148.7481		
1802	89.5963	104.6767	14.1076	154.3923	40.2828		
21581	89.5963	712.2452	73.1184	560.6088	118.9825		
11791	89.5445	108.2222	7.7685	139.8817	32.9493		
7842	89.5445	2.6935	8.9314	25.5130	14.7431		
12346	89.5445	472.4318	59.0587	678.7885	440.2343		
2612	89.4410	36.9472	5.5990	57.8448	17.5537		
13622	89.0787	375.5315	43.6054	253.3860	94.4454		
5983	88.9752	311.8697	61.2478	585.0836	201.7810		
18643	88.8716	239.7207	20.7273	306.2247	60.9991		
22033	88.8716	132.9733	8.2770	174.4417	52.8980		
5007	88.8716	572.3495	40.5614	739.8550	164.1606		
7011	88.7681	236.2587	24.5283	327.1433	72.6244		
12305	88.7164	184.9173	25.1616	131.5672	39.8234		
3904	88.5611	227.7152	28.3711	135.5882			
6649	88.5611	-10.8562	23.5637	32.7590	94.2873 148.9578		
3836	88.5093	3826.9087	290.6592				
498	88.4576	888.2553		2981.9296	664.5439		
17330	88.2505	91.7602	81.8895	700.3447	149.0531		
7852	88.2505		13.7975	59.3632	23.0230		
18047		106.6953	105.2722	312.2733	70.4524		
10047	88.1988	156.8232	3.9296	167.4510	38.3251		

Timepoint(s): 2	FABLE 5BB: Minoxidil—Core Tox MarkersAtty. Ref. 44921-5090-01-WO/2105485Fimepoint(s): 24, 360 hrs									
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox					
23027	88.1988		2.7099	52.7099	36.7406					
23596	88.1470		32.2812							
9305			5.2230	142.3025						
20038	88.0952	135.2602	21.1150	199.3672						
26114		2.0.1101	24.9829							
13928			72.3694	529.8971	149.5635					
6455	87.8882	314.3333	78.4011	196.3007						
18826	87.8882	683.4078	108.4593	1028.9475						
22942	87.8364	134.9742	30.7739	193.5716						
22882	87.8364	100.1367	30.4959	165.3614						

imepoint(s	: NOREPINE): 24 hrs	PHRINE	At	ty. Ref. 44921-509	90-01-WO/210548
LGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20863	99.6904			152.0204	49.740
17431	99.1228			437.1764	108.199
21951	98.6584				18.024
17211	98.0392	2705.5817	23.7082	2036.3654	574.611
17648	97.9876	167.4683			43.245
17808	97.9360	1712.9783	24.2555	1271.1624	255.719
14983	97.9360	9490.9897	246.4261	7314.6962	3829.344
19411	97.8844	100.8437	0.4210	112.6130	36.626
20357	97.7812	41.3160	1.5967	92.4611	37.076
10660	97.6780	71.1927	0.3765	68.2986	17.821
20844	97.4200	2095.0633	27.4653	1583.7326	367.353
17298	97.4200	197.8003	1.1728	202.4156	46.417
2811	97.4200	54.3710	1.4083	86.9006	26.212
16924	97.2136	325.3807	6.4975	225.0529	107.439
23357	97.1620	127.7170	1.0540	144.3015	32.450
17991	97.0072	13.6307	0.6479	26.1271	9.257
21801	97.0072	191.3690	1.7931	160.2509	36.770
5049	96.9556	453.6563	28.9136	737.2678	170.4712
21087	96.8524	20.9507	0.6866	27.2381	320.9153
20746	96.8524	575.6373	6.1367	491.5957	121.8270
18221	96.5944	137.9597	2.3388	189.7786	52.6548
17757	96.5428	147.7873	1.3945	128.8930	28.2779
14924	96.4396	51.8627	1.3141	38.0575	24.1160
25643	96.1300	105.8687	1.0779	127.2940	27.8507
13489	95.9752	6.2677	1.7932	21.3974	9.1426
20386	95.7172	265.7490	2.9274	333.1644	84.5056
19768	95.7172	674.4197	8.5199	796.3149	122.8559
15996	95.6140	105.4843	2.2465	154.0898	79.1755
2812	95.6140	63.1260	1.6503	89.8743	24.9196
194	95.5624	24.1963	0.4803	19.9540	14.3888
2696	95.5624	1762.8073	31.4524	1422.2921	365.6896
16070	95.4592	50.8690	1.5166	71.7919	28.5871
20235	95.4592	37.5317	1.8408	47.0293	26.5541
2632	95.4076	167.9587	1.6753	186.7841	29.5856
13647	95.3560	1105.3833	354.4977	561.0303	204.2384
571	95.3560	79.6580	3.0611	97.1701	46.0338
16001	95.3560	11808.5667	498.3945	8758.3158	3566.9879
15772	95.3044	20.7357	0.4255	25.8650	10.5094
16507	95.2012	102.8060	2.9377	144.1605	46.3039
15384	95.0464	26.9193	2.2940	48.4330	18.7361
15202	94.9948	1630.9773	97.0261	1017.4003	358.3999
19694	94.8400	35.2940	1.0696	39.4846	18.5360
18076	94.7884	0.4443	1.5758	32.3208	28.9133
15450	94.7884	14.0293	0.5515	20.3809	6.5776
23343	94.7884	22.5627	0.8490	30.7679	10.1335
24644	94.6852	48.7800	35.4267	59.7429	17.0549
16292	94.5820	55.0530	4.1845	23.2692	28.5015
14966	94.5820	92.8293	8.8838	39.4153	46.0119
25547	94.5304	260.6713	11.4421	355.9494	129.4296
17875	94.4788	20.1533	1.4421	2.7236	25.5290
20945	94.4788	2040.6570	88.0696	1595.1554	294.2624
15380	94.4272	1863.6317	378.2755	935.9807	366.6477

TABLE 5CC Timepoint(s	: NOREPINE	PHRINE	At	ty. Ref. 44921-50	90-01-WO/210548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
17729			125.5025	1324.7848	228.2950
5050	94.3756	1.	15.9769	516.2596	
1299	94.3756		23.9980	115.5967	
20994	94.3756	138.7977	2.4628	119.6022	30.7760
11350	94.3240	31.5207	1.8216	63.4682	29.9900
24609	94.2724		0.8361	37.0927	240.4283
20975	94.2724		6.9311	148.5012	38.4501
16139	94.2208	131.1017	1.4153	140.0184	32.8568
25110	94.2208	66.0483	2.2815	84.1086	16.1268
19321	94.1692	221.5020	2.7681	249.6174	41.8258
25137	94.1692	25.3893	0.8747	34.1161	11.2576
1977	94.0144	318.8380	83.1405	552.5388	109.770
5837	94.0144	20.2693	20.7539	108.6565	64.8043
13090	93.9628	75.7560	2.9234	99.2587	42.8080
19888	93.9628	183.8520	7.2264	133.6778	51.2786
18365	93.9112	88.5537	2.3153	112.8918	77.1579
15911	93.9112	134.4520	7.6642	194.2536	44.9941
4615	93.8596	. 884.0333	50.4101	586.9161	207.1906
4035	93.8596	79.2893	2.2117	89.5571	32.1003
21989	93.8080	87.8107	1.1828	98.5063	18.7718
1283	93.7564	90.1383	2.9178	110.1922	40.4636
25262	93.7564	44.5400	1.0002	42.3342	14.5553
17653	93.7564	24.3393	0.6370	26.8303	11.6319
22499	93.7564	32.1947	2.0163	20.9150	12.1488
16715	93.7049	21.5823	1.3680	15.6291	12.6757
15761	93.6533	12.5080	2.4564	32.0276	15.4752
16382	93.6533	81.5550	2.0418	97.3052	31.9369
19152	93.6533	78.5820	1.4082	90.5775	21.3603
23083	93.6017	51.3330	1.3946	55.2908	16.9676
23486	93.5501	290.4820	8.6006	378.9140	72.1118
12360	93.4985	35.1090	3.2411	60.0728	25.8807
20728	93.4985	699.3180	33.9924	915.6553	202.6830
21086	93.3953	60.6500	3.0185	87.2985	25.8805
20840	93.3437	101.9150	2.6021	91.4824	39.3794
16099	93.2921	512.4647	14.8688	429.8306	62.4877
15683	93.2405	79.7163	2.9852	102.8190	42.0203
16400	93.1889	483.1180	51.1795	316.1201	193.0789
25103	93.1373	87.7253	2.0728	65.0932	41.5711
17649	93.1373	192.8347	9.2057	262.4957	83.2930
23825	93.1373	57.1467	1.4480	63.5002	19.0013
9620	93.0857	1102.1280	83.6335	797.7883	183.0347
9952	93.0857	415.3687	15.3125	545.4961	105.7077
1097	93.0857	264.3353	8.4195	303.0990	100.2771
5014 14504	93.0341	23.0340	1.6781	43.0242	18.7763
20554	93.0341	388.5153	24.7725	528.3181	118.3967
	92.9825	64.9137	3.4897	75.3841	36.9748
16361 17157	92.9825	28.3843	2.5207	44.7460	11.8878
22028	92.9825	107.4930	5.5723	80.0165	26.0867
	99.5872	13375.5767	47.8547	9974.9350	3731.3312
13787	99.3808	37.6450	0.1778	53.1175	15.6581
17662	99.0712	118.4780	2.1611	176.1766	35.6440
9466	98.9164	175.5210	1.9121	31.3618	134.6260

	s): 24 hrs 🙏	PHRINE	;	ty. Ref. 44921-509	90-01-WO/210548
GC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
2360				219.7876	49.682
16087	98.8132			100.7151	34.780
7992	98.6584			139.5139	42.586
16203	98.6068	85.3683	3.5578	139.3817	48.812
5371	98.6068	23.7507	0.4097	10.4518	9.488
8285	98.4520	90.8623	0.4857	95.7843	28.657
12796	98.2972	38.0497	0.3103	41.2723	27.330
24290	98.2972	90.5837	2.6147	361.6428	374.602
16	98.1940	1822.0580	42.5386	1233.0724	320.494
9114	98.1424	-8.5253	1.4263	31.4281	25.972
11500	97.9360	671.5923	15.7799	465.7576	119.395
21805	97.8844	480.5100	7.3892	343.1120	76.113
6136	97.8328	47.2520	0.9249	66.0209	16.0978
21468	97.7812	-83.5257	5.4755	44.3069	81.3374
15969	97.6780	280.0903	1.1936	311.6277	53.208
19371	97.5748	65.2587	0.7805	89.8295	32.0983
26148	97.5748	44.5913	0.4646	43.9464	31.9266
5891	97.5232	110.9577	3.0678	40.5915	59.6948
23097	97.5232	89.0547	1.0120	70.6426	24.0133
15246	97.4716	46.4467	0.4743	53.2756	15.3668
13375	97.4716	4.4203	0.9991	35.7215	22.1446
4911	97.4716	23.6933	0.2376	28.3943	14.1208
16438	97.4716	635.3450	11.7897	472.8945	130.7109
2095	97.4716	93.3360	1.4555	124.5051	25.6095
10614	97.4716	316.9750	10.2247	136.9156	110.6099
9310	97.3684	91.8597	1.0511	121.8552	36.8422
18212	97.3684	41.2213	5.1671	-19.9520	34.9405
12654	97.3684	112.8583	10.6705	234.9660	90.1942
22493	97.3684	256.6973	1.8373	213.1873	56.4399
10302	97.3684	27.9787	0.5209	17.3983	19.9656
6387	97.3168	70.9853	0.3674	75.6112	15.3600
17642	97.2136	21.3120	0.7327	43.6575	20.4405
22682	97.2136	23.4507	0.9202	27.2053	31.3254
14202	97.1620	77.3710	1.1937	96.9214	35.6696
21456	97.1620	22.3423	0.8300	7.7116	22.1473
19016	97.1104	395.3907	7.3295	277.0878	74.8662
15091	97.0588	99.1530	1.7515	138.2585	37.7845
20087	97.0072	67.3520	0.6694	66.8587	27.1307
6712	96.9556	169.7277	1.8176	189.1622	57.1238
2476	96.9040	53.3413	0.8480	55.5428	32.4163
22707	96.8008	17.7820	1.2756	42.3511	26.8561
7171	96.8008	94.3337	1.2532	83.6124	30.5140
23703	96.6976	31.0490	0.3480	29.0504	14.2729
24212	96.6976	2582.6843	21.4587	2283.2783	408.2796
149	96.6976	66.2783	0.8071	76.7152	15.8431
8423	96.6976	227.7503	3.3440	366.9388	292.2468
14625	96.6976	68.5233	0.9441	81.2621	23.5113
9408	96.5944	59.6917	1.7766	39.0365	17.3643
21825	96.5944	56.4700	1.5143	88.3463	35.4890
21427	96.4912	79.2123	1.3763	103.8133	29.5468
12828	96.4396	57.7353	0.9357	66.8836	32.7675
20757	96.3364	2414.1663	17.0973	2271.8254	422.0171

	TABLE 5CC: NOREPINEPHRINE Atty. Ref. 44921-5090-01-WO/2105485 Timepoint(s): 24 hrs								
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox				
24117	96.3364	26.6910	2.0888	10.4170	17.5507				
2675	96.3364	1148.9510	10.6599						
12778		152.6843	2.5320						
21500		237.3877	54.4652	89.4782					
16689		104.0237	1.2517	108.6236					
22595	96.2332	166.8360	2.7171	194.4342					
21264	96.2332	122.8987	1.7320	103.6940					
13741	96.1816	26.0263	0.3138	32.8458					
20327	96.1300	122.6457	1.3007	117.4239					
4189	96.0784	343.5817	2.9074	392.8493					
8959	96.0784	82.2207	1.8721	58.2600	21,4847				
7036	96.0784	90.0790	2.0404	113.9122	21.4538				
4732	96.0784	165.0377	1.5663	187.3527	37.0863				
8265	96.0784	118.6537	1.7219	90.1576	33.6246				
5454	96.0784	32.1143	2.3840	14.5283	17.3022				
15393	96.0268	270.5937	15.8566	187.4393	42.2588				
2208	96.0268	162.0793	6.7166	223.0357	44.7220				
10685	96.0268	23.6977	0.5614	36.1425	15.1425				
15085	95.9752	885.2107	4.7521	972.5390	174.5670				

mepoint(s): 2 LGC ID		Ta a			
	LDA Score	Mean Tox	SD Tox		SD Nontox
20863	99.6904				
17431	99.1228			437.1764	
21951	98.6584	69.3167		77.8674	
17211	98.0392	2705.5817	23.7082	2036.3654	574.6117
17648	97.9876	167.4683	0.6089	178.3401	43.2454
17808	97.9360	1712.9783	24.2555	1271.1624	255.7192
14983	97.9360	9490.9897	246.4261	7314.6962	3829.3447
19411	97.8844	100.8437	0.4210	112.6130	36.6267
20357	97.7812	41.3160	1.5967	92.4611	37.0762
10660	97.6780	71.1927	0.3765	68.2986	17.8215
20844	97.4200	2095.0633	27.4653	1583.7326	367.3536
17298	97.4200	197.8003	1.1728	202.4156	46.4171
2811	97.4200	54.3710	1.4083	86.9006	26.2123
16924	97.2136	325.3807	6.4975	225.0529	107.4393
23357	97.1620	127.7170	1.0540	144.3015	32.4500
17991	97.0072	13.6307	0.6479	26.1271	9.2577
21801	97.0072	191.3690	1.7931	160.2509	36.7703
5049	96.9556	453.6563	28.9136	737.2678	170.4712
21087	96.8524	20.9507	0.6866	27.2381	320.9153
20746	96.8524	575.6373	6.1367	491.5957	121.8270
18221	96.5944	137.9597	2.3388	189.7786	52.6548
17757	96.5428	147.7873	1.3945	128.8930	28.2779
14924	96.4396	51.8627	1.3141	38.0575	24.1160
25643	96.1300	105.8687	1.0779	127.2940	27.8507
13489	95.9752	6.2677	1.7932	21.3974	9.1426
17100	95.9236	1933.0853	99.4724	1310.1293	296.4873
20386	95.7172	265.7490	2.9274	333.1644	84.5056
19768	95.7172	674.4197	8.5199	796.3149	122.8559
15996	95.6140	105.4843	2.2465	154.0898	79.1755
2812	95.6140	63.1260	1.6503	89.8743	24.9196
194	95.5624	24.1963	0.4803	19.9540	14.3888
2696	95.5624	1762.8073	31.4524	1422.2921	365.6896
16070	95.4592	50.8690	1.5166	71.7919	28.5871
20235	95.4592	37.5317	1.8408	47.0293	26.5541
2632	95.4076	167.9587	1.6753	186.7841	29.5856
13647	95.3560	1105.3833	354.4977	561.0303	204.2384
571	95.3560	79.6580	3.0611	97.1701	46.0338
16001	95.3560	11808.5667	498.3945	8758.3158	3566.9879
15772	95.3044	20.7357	0.4255	25.8650	10.5094
16507	95.2012	102.8060	2.9377	144.1605	46.3039
15384	95.0464	26.9193	2.2940	48.4330	18.7361
15202	94.9948	1630.9773	97.0261	1017.4003	358.3999
19694	94.8400	35.2940	1.0696	39.4846	18.5360
18076	94.7884	0.4443	1.5758	32.3208	28.9133
15450	94.7884	14.0293	0.5515	20.3809	6.5776
23343	94.7884	22.5627	0.8490	30.7679	10.1335
24644	94.6852	48.7800	35.4267	59.7429	17.0549
16292	94.5820	55.0530	4.1845	23.2692	28.5015
14966	94.5820	92.8293	8.8838	39.4153	
25547	94.5304	260.6713	11.4421	355.9494	46.0119
					129.4296
17875	94.4788	20.1533	1.4421	2.7236	25.5290

LGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
15380	94.4272	1863.6317			366.647
17729	94.3756				228.2950
5050	94.3756		15.9769		120.7928
1299	94.3756		23.9980	115.5967	73.0578
20994		138.7977	2.4628	119.6022	30.7760
11350	94.3240	31.5207	1.8216	63.4682	29.9900
24609	94.2724	21.7690	0.8361	37.0927	240.4283
20975	94.2724	97.1543	6.9311	148.5012	38.450
16139	94.2208	131.1017	1.4153	140.0184	32.8568
25110	94.2208	66.0483	2.2815	84.1086	16.126
19321	94.1692	221.5020	2.7681	249.6174	41.8258
25137	94.1692	25.3893	0.8747	34.1161	11.2576
1977	94.0144	318.8380	83.1405	552.5388	109.770
5837	94.0144	20.2693	20.7539	108.6565	64.8043
13090	93.9628	75.7560	2.9234	99.2587	42.8080
19888	93.9628	183.8520	7.2264	133.6778	51.2786
18365	93.9112	88.5537	2.3153	112.8918	77.1579
15911	93.9112	134.4520	7.6642	194.2536	44.9941
4615	93.8596	884.0333	50.4101	586.9161	207.1906
4035	93.8596	79.2893	2.2117	89.5571	32.1003
21989	93.8080	87.8107	1.1828	98.5063	18.7718
1283	93.7564	90.1383	2.9178	110.1922	40.4636
25262	93.7564	44.5400	1.0002	42.3342	14.5553
17653	93.7564	24.3393	0.6370	26.8303	11.6319
22499	93.7564	32.1947	2.0163	20.9150	12.1488
16715	93.7049	21.5823	1.3680	15.6291	12.6757
15761	93.6533	12.5080	2.4564	32.0276	15.4752
16382	93.6533	81.5550	2.0418	97.3052	31.9369
19152	93.6533	78.5820	1.4082	90.5775	21.3603
23083	93.6017	51.3330	1.3946	55.2908	16.9676
23486	93.5501	290.4820	8.6006	378.9140	72.1118
12360	93.4985	35.1090	3.2411	60.0728	25.8807
20728	93.4985	699.3180	33.9924	915.6553	202.6830
21086	93.3953	60.6500	3.0185	87.2985	25.8805
20840	93.3437	101.9150	2.6021	91.4824	39.3794
16099	93.2921	512.4647	14.8688	429.8306	62.4877
15683	93.2405	79.7163	2.9852	102.8190	42.0203
16400	93.1889	483.1180	51.1795	316.1201	193.0789
25103	93.1373	87.7253	2.0728	65.0932	41.5711
17649	93.1373	192.8347	9.2057	262.4957	83.2930
23825	93.1373	57.1467	1.4480	63.5002	19.0013
9620	93.0857	1102.1280	83.6335	797.7883	183.0347
9952	93.0857	415.3687	15.3125	545.4961	105.7077
1097	93.0857	264.3353	8.4195	303.0990	100.2771
5014	93.0341	23.0340	1.6781	43.0242	18.7763
14504	93.0341	388.5153	24.7725	528.3181	118.3967
20554	92.9825	64.9137	3.4897	75.3841	36.9748
16361	92.9825	28.3843	2.5207	44.7460	11.8878
22028	99.5872	13375.5767	47.8547	9974.9350	3731.3312
13787	99.3808	37.6450	0.1778	53.1175	15.6581
17662	99.0712	118.4780	2.1611	176.1766	35.6440
9466	98.9164	175.5210	1.9121	31.3618	134.6260

Timepoint(s): 2		. :	<u>. </u>		
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox
2360				219.7876	49.682
16087				100.7151	34.780
7992			0.5441	139.5139	42.586
16203			3.5578	139.3817	48.812
5371	98.6068		0.4097	10.4518	9.488
8285			0.4857	95.7843	28.657
12796		38.0497	0.3103	41.2723	
24290	98.2972	90.5837	2.6147	361.6428	374.602
16	98.1940	1822.0580	42.5386	1233.0724	320.494
9114	98.1424	-8.5253	1.4263	31.4281	25.972
11500	97.9360	671.5923	15.7799	465.7576	119.395
21805	97.8844	480.5100	7.3892	343.1120	76.113
6136	97.8328	47.2520	0.9249	66.0209	16.097
21468	97.7812	-83.5257	5.4755	44.3069	81.337
15969	97.6780	280.0903	1.1936	311.6277	53.208
19371	97.5748	65.2587	0.7805	89.8295	32.098
26148	97.5748	44.5913	0.4646	43.9464	31.926
5891	97.5232	110.9577	3.0678	40.5915	59.694
23097	97.5232	89.0547	1.0120	70.6426	24.013
15246	97.4716	46.4467	0.4743	53.2756	15.366
. 13375	97.4716	4.4203	0.9991	35.7215	22.144
4911	97.4716	23.6933	0.2376	28.3943	14.120
16438	97.4716	635.3450	11.7897	472.8945	130.7109
2095	97.4716	93.3360	1.4555	124.5051	25.609
10614	97.4716	316.9750	10.2247	136.9156	110.6099
9310	97.3684	91.8597	1.0511	121.8552	36.8422
18212	97.3684	41.2213	5.1671	-19.9520	34.940
12654	97.3684	112.8583	10.6705	234.9660	90.1942
22493	97.3684	256.6973	1.8373	213.1873	56.4399
10302	97.3684	27.9787	0.5209	17.3983	19.9656
6387	97.3168	70.9853	0.3674	75.6112	15.3600
17642	97.2136	21.3120	0.7327	43.6575	20.440
22682	97.2136	23.4507	0.9202	27.2053	31.3254
14202	97.1620	77.3710	1.1937	96.9214	35.6696
21456	97.1620	22.3423	0.8300	7.7116	22.1473
19016	97.1104	395.3907	7.3295	277.0878	74.8662
15091	97.0588	99.1530	1.7515	138.2585	37.7845
20087	97.0072	67.3520	0.6694	66.8587	27.1307
6712	96.9556	169.7277	1.8176	189.1622	57.1238
2476	96.9040	53.3413	0.8480	55.5428	32.4163
22707	96.8008	17.7820	1.2756	42.3511	26.8561
7171	96.8008	94.3337	1.2532	83.6124	30.5140
23703	96.6976	31.0490	0.3480	29.0504	14.2729
24212	96.6976	2582.6843	21.4587	2283.2783	408.2796
149	96.6976	66.2783	0.8071	76.7152	15.8431
8423	96.6976	227.7503	3.3440	366.9388	292.2468
14625	96.6976	68.5233	0.9441	81.2621	
9408	96.5944	59.6917	1.7766		23.5113
21825	96.5944	56.4700		39.0365	17.3643
21427	96.4912	79.2123	1.5143	88.3463	35.4890
12828	96.4396	57.7353	1.3763	103.8133	29.5468
20757	96.3364		0.9357	66.8836	32.7675
20131	90.3304	2414.1663	17.0973	2271.8254	422.0171

TABLE 5DD: NorepinephrineCore Tox Atty. Ref. 44921-5090-01-WO/2108 Timepoint(s): 24 hrs							
GLGC ID		Mean Tox	SD Tox	Mean Nontox	SD Nontox		
24117	96.3364	26.6910	2.0888	10.4170	17.5507		
2675	96.3364	1148.9510	10.6599	947.0135			
12778	96.2848	152.6843	2.5320	183.5233			
21500	96.2848	237.3877	54.4652	89.4782			
16689	96.2332	104.0237	1.2517	108.6236			
22595	96.2332	166.8360	2.7171	194.4342			
21264	96.2332	122.8987	1.7320	103.6940			
13741	96.1816	26.0263	0.3138				
11516	96.1300	81.2373	2.7040	119.3780			
20327	96.1300	122.6457	1.3007	117.4239			
4189	96.0784	343.5817	2.9074	392.8493	91.9355		
8959	96.0784	82.2207	1.8721	58.2600	21.4847		
7036	96.0784	90.0790	2.0404	113.9122	21.4538		
4732	96.0784	165.0377	1.5663	187.3527	37.0863		
8265	96.0784	118.6537	1.7219				
5454	96.0784	32.1143	2.3840		17.3022		
15393	96.0268	270.5937	15.8566	187.4393	42.2588		
2208	96.0268	162.0793	6.7166	223.0357	44.7220		
10685	96.0268	23.6977	0.5614	36.1425	15.1425		
15085	95.9752	885.2107	4.7521	972.5390	174.5670		

TABLE 5EE: Timepoint(s	NOREPINEP): 3, 6 hrs	HRINE	Atty. F	Ref: 44921-5090-0	1-WO/210548
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6892	99.4813				31.084
6891	99.4295	805.9879		250.4163	82.882
8664	99.2739	1607.5828	418.0726	112.2090	
17734	98.7033	3990.9268	581.3210	1027.2344	
16518	98.6515	1977.6365	445.9983	763.7900	
17736	98.4440	2529.2289	492.7151	608.7162	
21663	98.3921	1440.2189	312.1577	373.7786	161.1208
363	98.2365	112.7505	30.0230	44.4177	19.3890
1892	98.1328	2802.2854	341.4428	1202.3530	371.2073
357	98.0809	73.5020	15.4920	25.2192	17.8083
354	98.0809	553.4614	186.9081	160.6835	74.3664
17765	98.0809	2316.9869	210.1469	1388.9983	275.7749
17401	97.8734	1692.6079	353.9725	599.5431	218.5884
17735	97.8216	4082.1361	1121.4657	1084.0936	505.114
385	95.6950	-0.6526	7.8050	46.1192	22.5750
20204	95.4876	9.0690	9.4593	42.6701	13.7144
16026	95.2801	78.3944	13.6112	159.1730	46.7838
11865	93.9315	26.5984	8.8112	64.6395	19.3332
23058	93.6722	146.0564	35.0956	283.2263	71.9984
8663	93.2832	727.9441	520.6358	-55.1429	146.5325
1475	92.7645	1938.9946	1033.7095	94.4565	217.4632
18059	92.4533	273.4070	133.1863	27.2551	31.3860
20448	92.4015	736.0876	490.7340	74.8256	108.9987
11258	92.2977	110.7936	89.7714	7.7077	21.7879
20449	92.2459	1033.4939	521.5685	98.5816	165.7143
2629	92.0902	90.5585	40.0410	20.9245	15.5802
923	92.0384	103.1869	40.4358	16.6868	17.6992
17908	92.0384	202.9623	78.7039	43.1288	31.1735
18259	91.9865	238.4859	97.3566	93.3552	46.0079
355	91.9346	87.8504	34.0407	9.5089	28.1285
15461	91.9346	444.1755	193.8804	106.2839	54.2785
18597	91.8309	263.7544	75.1004	93.6741	61.8674
353	91.8309	435.7853	161.9288	114.4376	63.1917
223	91.7790	144.8780	67.7257	12.5453	23.9093
244	91.6753	303.9644	134.5401	61.5793	37.4726
15191	91.4160	1323.7188	675.7651	175.8255	552.7855
23868	91.3122	894.6340	436.2035	212.6165	220.7827
11530	91.1566	999.6595	378.7252	205.4721	156.9648
5167	91.0788	73.3379	26.1360	25.7047	27.9237
19085	91.0529	92.1740	18.5335	52.0272	13.8484
15510	91.0270	196.0304	36.3396	281.5123	54.2591
22868	90.9232	14.9119	4.4812	28.6827	8.8600
3799	90.6380	750.1286	157.2905	379.7988	110.5086
1742	90.6380	104.5040	42.1347	32.4741	21.1420
79	90.6120	18.4890	9.5247	46.8097	17.7675
21662	90.4305	37.9036	11.1011	3.7015	11.5339
18582	90.2490	168.8623	27.1634	251.9951	55.6036
16173	90.2230	67.9840	34.6720	13.2814	26.1690
5496	90.1971	45.9714	10.2833	68.5173	
20728	90.1452	606.7143			13.6940
17764	90.0156	3163.5308	125.8443	917.5459	201.3214
11940	89.9637	45.6983	519.9248	1938.2249	384.4218
11340	05.5031	45.0983	7.5672	25.0523	8.4310

Timepoint(s): 3, GLGC ID LDA 857 10071 22499 15617 15618 18715 21400 19040 21445 19481	89.9118 89.8081 89.6006 89.5488 89.2894 89.2376 89.0560 89.0301 88.9782	540.8850 50.9446 35.0314 146.0054 256.8166 61.2115	117.5623	Mean Nontox 10.3579 263.9332 20.7009 15.0018	106.1775
10071 22499 15617 15618 18715 21400 19040 21445	89.8081 89.6006 89.5488 89.2894 89.2376 89.0560 89.0301	540.8850 50.9446 35.0314 146.0054 256.8166 61.2115	117.5623 12.0167 14.6256 29.2866	263.9332 20.7009	106.1775
22499 15617 15618 18715 21400 19040 21445	89.6006 89.5488 89.2894 89.2376 89.0560 89.0301	50.9446 35.0314 146.0054 256.8166 61.2115	12.0167 14.6256 29.2866	20.7009	
15617 15618 18715 21400 19040 21445	89.5488 89.2894 89.2376 89.0560 89.0301	35.0314 146.0054 256.8166 61.2115	14.6256 29.2866		11.8397
15618 18715 21400 19040 21445	89.2894 89.2376 89.0560 89.0301	146.0054 256.8166 61.2115	29.2866	15.0018	
18715 21400 19040 21445	89.2376 89.0560 89.0301	256.8166 61.2115		10	8.2473
21400 19040 21445	89.0560 89.0301	61.2115	57 0200	99.5980	20.9977
19040 21445	89.0301		31.9299	151.0548	40.5827
21445			13.3773	106.3284	32.1543
	88.9782	452.5429	120.7826	253.2807	75.3125
19481		60.1424	23.7036	10.5246	22.9670
	88.7967	68.2556	21.4951	130.6260	42.5148
15189	88.5114	757.2838	239.9481	336.5505	361.6568
18389	88.2521	1826.1269	641.7089	825.5171	459.3395
21239	88.2521	243.9681	83.0284	118.3888	62.3919
16499	88.0965	-1.1534	33.3176	57.7244	33.3571
23166	88.0446	170.4068	42.1077	108.1382	29.1160
753	87.9149	68.1009	5.2162	57.5494	20.5305
25039	87.6037	286.6995	44.2026	404.9923	94.3883
16122	87.5778	119.7388	37.9603	64.7526	28.1717
5034	87.5778	1164.1774	132.1500	884.7553	148.4135
14997	87.5000	555.6661	54.0072	746.1537	155.8718
1377	87.5000	38.9810	5.4946	57.5690	19.5886
1521	87.4222	128.7296	49.7904	68.1875	34.1946
602	87.3185	139.4460	48.7242	229.9013	48.2442
8662	86.9813	257.6134	185.2497	-34.8090	75.2818
8661	86.9813	250.8268	154.0243	10.2067	65.0503
22351	86.7998	65.9775	18.6803	41.1423	15.1897
1527	86.7220	8.1863	6.8239	25.1339	12.3022
12364	86.6961	74.7339	33.5477	150.7245	39.4713
18295	86.6961	83.1748	64.3321	173.4615	51.1680
20983	86.4108	345.9545	55.2211	479.1295	109.6979
18654	86.3330	89.2891	44.9318	218.8692	64.6229
764 6349	86.3330	50.5666	18.4217	101.3529	27.5301
1271	86.2033	116.8153	14.3162	151.7734	33.0023
	86.1255	52.7259	9.5378	80.4345	15.6506
12978 22625	86.0996 86.0477	308.5996	230.1202	76.3885	43.7321
		188.2085	98.2440	65.0820	29.2058
23336 11422	85.9959	66.5710	8.7131	93.1635	24.9841
4448	85.9699 85.8662	53.8790	22.4691	113.2816	31.5290
24431		17.4248	5.1796	35.2285	10.6554
17257	85.7884 85.7884	425.6855	273.1575	73.8453	65.3863
17137	85.7624	242.1913 367.5156	50.2257	365.4273	115.4767
5676	85.7365	25.5498	191.1552 28.0838	857.4529	258.2968
21069	85.6846	36.6796	3.9627	76.9172 49.5086	45.5600
15460	85.6328	436.1656	264.6770	100.3814	14.2318 63.7207
19058	85.6328	19.0441	2.7660	24.9122	12.4186
14213	85.5809	75.0461	41.6040	6.0349	18.8872
20795	85.5290	361.8271	199.9596	110.7948	57.7895
8665	99.1183	3826.7229	1669.2221	413.1920	335.0125
8759	98.4440	339.5654	116.1490	35.3245	57.8247
23732	98.3921	1134.9133	214.4420		145.8289
15212	98.2884	254.2340	76.3460	329.8413 55.2676	36.1656

TABLE 5EE: Timepoint(s	NOREPINEP	HRINE	Atty. F	Ref. 44921-5090-0	1-WO/2105485
GLGC ID	LDÁ Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3808	98.1328			556.3567	199.8705
23314	98.1328		670.9375	77.5428	192.5340
3139	98.0290		585.8836	1711.6874	
9604	97.9772	2744.8634	1014.6649	384.8144	345.9048
16053	97.9772	333.2519	75.7808	117.3370	86.2544
15171	97.9253	2108.9989	591.0550	1029.9120	260.3607
2331	97.7697	1845.3030	533.8146	379.6211	333.8526
16124	97.7697	619.0150	169.0273	228.5083	87.7501
14712	97.5104	324.5103	65.6300	155.8050	42.3838
22378	97.2510	134.3710	28.4687	272.1390	61.5948
21632	97.1473	516.5784	118.5630	200.9806	98.2866
3434	97.0436	2236.3513	500.5160	753.5275	374.6549
23304	96.9398	214.1941	40.7498	123.0396	36.3114
12664	96.1618	37.5723	14.3677	112.9597	33.6585
2861	96.1618	83.9905	15.7656	46.8376	15.6812
13460	95.5394	185.8708	40.8718	334.6733	66.9248
21514	95.3320	108.6159	26.3403	57.8617	20.4835
3290	95.2282	259.4525	54.3802	444.5074	79.6490
6102	95.0207	68.4524	17.6339	36.5686	14.9042
3511	94.9689	224.9530	44.7671	91.6020	52.8324
4790	94.9170	-39.7215	33.4762	151.9333	96.7369
12946	94.8651	135.0391	20.0304	218.9686	41.9762
3207	94.7614	45.5745	48.5801	242.4891	97.5193
8938	94.6058	9.0184	10.2678	71.8879	34.7491
8917	94.3465	85.9886	24.2129	168.4718	38.9581
12662	93.8797	24.1668	17.5314	85.9064	31.0954
14494	93.8278	146.9951	34.1009	226.4663	37.3047
4873	93.6722	223.9209	72.9117	447.2041	116.5943
5442	93.5166	224.1333	69.1508	431.7980	112.6526
18350	93.3091	241.2716	40.0402	140.0376	60.8767
16599	93.2054	335.5149	61.8090	591.6306	143.1488
14088	93.0498	14.6839	16.9187	81.9165	37.8533
16596	92.9979	158.2274	46.7335	315.6517	82.3981
22929	92.9979	278.7673	75.8229	735.8519	314.8335
2729	92.8423	230.7750	70.2194	481.2179	151.9874
15051	92.5311	208.6471	41.5312	120.1176	109.4713
6054	92.4533	691.3863	298.0596	51.1399	82.1514
7913	92.3496	159.3261	65.7056	52.0903	38.6015
11238	92.2199	12.9080	5.0509	41.7424	22.5899
8820	92.1162	191.3825	68.6766	400.2327	122.6294
24022	92.0643	56.1263	13.4650	102.0367	26.9371
9452	92.0384	1134.7661	463.3626	264.4877	243.9946
2459	91.9865	1774.2951	789.0601	116.8937	251.3637
4188	91.9606	0.5915	9.1017	33.1719	22.3639
13291	91.9346	500.4205	228.8126	170.4361	55.9152
4725	91.9346	500.0794	221.4606	84.4696	93.1704
11326	91.9087	82.5878	44.3182	192.7032	58.3028
8012	91.9087	50.4938	7.5181	29.4405	13.8090
7700	91.7790	130.7185	44.6686	39.2479	24.6893
5775	91.7790	286.7219	134.6842	25.8344	40.0816
13365	91.7531	27.3019	13.9094	80.7765	43.8288
17783	91.7272	686.6200	210.1304	234.4352	89.0104

TABLE 5EE: NOREPINEPHRINE Atty. Ref. 44921-5090-01-W							
		Mean Tox	SD Tox	Mean Nontox	SD Nontox		
17402	91.6753	361.7129	84.0620	120.8395	52.7337		
10710	91.6494	64.5291	13.7797	100.4503	23.1614		
8290	91.5975	-22.2361	13.4745	25.3368	31.6710		
10837	91.5716	226.3690	71.4687	84.1778	40.4337		
22443	91.5716	114.8048	78.8654	32.8697	23.8497		
5675	91.5197	406.3161	126.2639	157.5955	137.4801		
11721	91.4419	34.3244	10.5013	77.0222	30.2750		
22666	91.4160	235.1778	80.8618	77.8863	36.8367		
12233	91.4160	267.2036	65.8534	105.4438	46.7134		

TABLE 5FF: No Timepoint(s): 3		Core Tox	Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
6892	99.4813			66.7882	
6891	99.4295		119.4903		
8664	99.2739		418.0726		
17734	98.7033	3990.9268	581.3210	1027.2344	428.8438
16518	98.6515	1977.6365	445.9983	763.7900	253.8228
17736	98.4440	2529.2289	492.7151	608.7162	319.5188
21663	98.3921	1440.2189	312.1577	373.7786	161.1208
363	98.2365	112.7505	30.0230	44.4177	19.3890
1892	98.1328	2802.2854	341.4428	1202.3530	371.2073
357	98.0809	73.5020	15.4920	25,2192	17.8083
354	98.0809	553.4614	186.9081	160.6835	74.3664
17765	98.0809	2316.9869	210.1469	1388.9983	275.7749
17401	97.8734	1692.6079	353.9725	599.5431	218.5884
17735	97.8216	4082.1361	1121.4657	1084.0936	505.1141
385	95.6950	-0.6526	7.8050	46.1192	22.5750
20204	95.4876	9.0690	9.4593	42.6701	13.7144
16026	95.2801	78.3944	13.6112	159.1730	46.7838
11865	93.9315	26.5984	8.8112	64.6395	19.3332
23058	93.6722	146.0564	35.0956	283.2263	71.9984
8663	93.2832	727.9441	520.6358	-55.1429	146.5325
1475	92.7645	1938.9946	1033.7095	94.4565	217.4632
18059	92.4533	273.4070	133.1863	27.2551	31.3860
20448	92.4015	736.0876	490.7340	74.8256	108.9987
11258	92.2977	110.7936	89.7714	7.7077	21.7879
20449	92.2459	1033.4939	521.5685	98.5816	165.7143
2629	92.0902	90.5585	40.0410	20.9245	15.5802
923	92.0384	103.1869	40.4358	16.6868	17.6992
17908	92.0384	202.9623	78.7039	43.1288	31.1735
18259	91.9865	238.4859	97.3566	93.3552	46.0079
355	91.9346	87.8504	34.0407	9.5089	28.1285
15461	91.9346	444.1755	193.8804	106.2839	54.2785
18597	91.8309	263.7544	75.1004	93.6741	61.8674
353	91.8309	435.7853	161.9288	114.4376	63.1917
223	91.7790	144.8780	67.7257	12.5453	23.9093
244	91.6753	303.9644	134.5401	61.5793	37.4726
11531	91.4160	1886.5684	868.1506	398.3255	
15191	91.4160	1323.7188	675.7651		256.0735
23868	91.3122	894.6340	436.2035	175.8255 212.6165	552.7855
11530	91.1566	999.6595			220.7827
5167	91.0788	73.3379	378.7252 26.1360	205.4721	156.9648
19085	91.0529	92.1740		25.7047	27.9237
15510	91.0270		18.5335	52.0272	13.8484
22868	90.9232	196.0304 14.9119	36.3396	281.5123	54.2591
3799	90.6380	750.1286	4.4812	28.6827	8.8600
1742	90.6380		157.2905	379.7988	110.5086
79		104.5040	42.1347	32.4741	21.1420
21662	90.6120	18.4890	9.5247	46.8097	17.7675
18582	90.4305	37.9036	11.1011	3.7015	11.5339
	90.2490	168.8623	27.1634	251.9951	55.6036
16173	90.2230	67.9840	34.6720	13.2814	26.1690
5496	90.1971	45.9714	10.2833	68.5173	13.6940
20728	90.1452	606.7143	125.8443	917.5459	201.3214
17764	90.0156	3163.5308	519.9248	1938.2249	384.4218

nepoint(s): 3,	6 nrs			A	
GC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11940					8.4310
857	89.9118	L			7.6130
10071	89.8081	540.8850		263.9332	106.1775
22499	89.6006			20.7009	11.8397
15617	89.5488				8.2473
15618	89.2894	146.0054		99.5980	20.9977
18715	89.2376				40.5827
21400	89.0560	61.2115	13.3773	106.3284	32.1543
19040	89.0301	452.5429	120.7826	253.2807	75.312
21445	88.9782	60.1424	23.7036	10.5246	22.9670
19481	88.7967	68.2556	21.4951	130.6260	42.5148
15189	88.5114	757.2838	239.9481	336.5505	361.6568
18389	88.2521	1826.1269	641.7089	825.5171	459.339
21239	88.2521	243.9681	83.0284	118.3888	62.3919
16499	88.0965	-1.1534	33.3176	57.7244	33.357
23166	88.0446	170.4068	42.1077	108.1382	29.1160
753	87.9149	68.1009	5.2162	57.5494	20.530
25039	87.6037	286.6995	44.2026	404.9923	94.3883
16122	87.5778	119.7388	37.9603	64.7526	28.1717
5034	87.5778	1164.1774	132.1500	884.7553	148.4135
14997	87.5000	555.6661	54.0072	746.1537	155.8718
1377	87.5000	38.9810	5.4946	57.5690	19.5886
1521	87.4222	128.7296	49.7904	68.1875	34.1946
602	87.3185	139.4460	48.7242	229.9013	48.2442
8662	86.9813	257.6134	185.2497	-34.8090	75.2818
8661	86.9813	250.8268	154.0243	10.2067	65.0503
22351	86.7998	65.9775	18.6803	41.1423	15.1897
1527	86.7220	8.1863	6.8239	25.1339	12.3022
12364	86.6961	74.7339	33.5477	150.7245	39.4713
18295	86.6961	83.1748	64.3321	173.4615	51.1680
20983	86.4108	345.9545	55.2211	479.1295	109.6979
18654	86.3330	89.2891	44.9318	218.8692	64.6229
764	86.3330	50.5666	18.4217	101.3529	27.5301
6349	86.2033	116.8153	14.3162	151.7734	33.0023
1271	86.1255	52.7259	9.5378	80.4345	15.6506
12978	86.0996	308.5996	230.1202	76.3885	43.7321
22625	86.0477	188.2085	98.2440	65.0820	29.2058
23336	85.9959	66.5710	8.7131	93.1635	24.9841
11422	85.9699	53.8790	22.4691	113.2816	31.5290
4448	85.8662	17.4248	5.1796	35.2285	10.6554
24431	85.7884	425.6855	273.1575	73.8453	65.3863
17257	85.7884	242.1913	50.2257	365.4273	115.4767
17137	85.7624	367.5156	191.1552	857.4529	258.2968
5676	85.7365	25.5498	28.0838	76.9172	45.5600
21069	85.6846	36.6796	3.9627	49.5086	14.2318
15460	85.6328	436.1656	264.6770	100.3814	63.7207
19058	85.6328	19.0441	2.7660	24.9122	12.4186
14213	85.5809	75.0461	41.6040	6.0349	18.8872
8665	99.1183	3826.7229	1669.2221	413.1920	335.0125
8759	98.4440	339.5654	116.1490	35.3245	57.8247
23732	98.3921	1134.9133			
15212	98.2884	254.2340	214.4420 76.3460	329.8413 55.2676	145.8289

TABLE 5FF: No Timepoint(s): 3	6 hrs	•	Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3808	98.1328		331.4931	556.3567	199.8705
23314	98.1328			77.5428	192.5340
3139	98.0290	3317.1991	585.8836	1711.6874	
9604	97.9772	2744.8634	1014.6649	384.8144	345.9048
16053	97.9772	333.2519	75.7808	117.3370	86.2544
15171	97.9253	2108.9989	591.0550	1029.9120	260.3607
2331	97.7697	1845.3030	533.8146	379.6211	333.8526
16124	97.7697	619.0150	169.0273	228.5083	87.7501
14712	97.5104	324.5103	65.6300	155.8050	42.3838
22378	97.2510		28.4687	272.1390	61.5948
21632	97.1473	516.5784	118.5630	200.9806	98.2866
3434	97.0436	2236.3513	500.5160	753.5275	374.6549
23304	96.9398	214.1941	40.7498	123.0396	36.3114
12664	96.1618	37.5723	14.3677	112.9597	33.6585
2861	96.1618	83.9905	15.7656	46.8376	15.6812
13460	95.5394	185.8708	40.8718	334.6733	66.9248
21514	95.3320	108.6159	26.3403	57.8617	20.4835
3290	95.2282	259.4525	54.3802	444.5074	79.6490
6102	95.0207	68.4524	17.6339	36.5686	14.9042
3511	94.9689	224.9530	44.7671	91.6020	52.8324
4790	94.9170	-39.7215	33.4762	151.9333	96.7369
12946	94.8651	135.0391	20.0304	218.9686	41.9762
3207	94.7614	45.5745	48.5801	242.4891	97.5193
8938	94.6058	9.0184	10.2678	71.8879	34.7491
8917	94.3465	85.9886	24.2129	168.4718	38.9581
12662	93.8797	24.1668	17.5314	85.9064	31.0954
14494	93.8278	146.9951	34.1009	226.4663	37.3047
4873	93.6722	223.9209	72.9117	447.2041	116.5943
5442	93.5166	224.1333	69.1508	431.7980	112.6526
18350	93.3091	241.2716	40.0402	140.0376	60.8767
16599	93.2054	335.5149	61.8090	591.6306	143.1488
14088	93.0498	14.6839	16.9187	81.9165	37.8533
16596	92.9979	158.2274	46.7335	315.6517	82.3981
22929	92.9979	278.7673	75.8229	735.8519	314.8335
2729	92.8423	230.7750	70.2194	481.2179	151.9874
15051	92.5311	208.6471	41.5312	120.1176	109.4713
6054	92.4533	691.3863	298.0596	51.1399	82.1514
7913	92.3496	159.3261	65.7056	52.0903	38.6015
11238	92.2199	12.9080	5.0509	41.7424	22.5899
8820	92.1162	191.3825	68.6766	400.2327	122.6294
24022	92.0643	56.1263	13.4650	102.0367	26.9371
9452	92.0384	1134.7661	463.3626	264.4877	243.9946
2459	91.9865	1774.2951	789.0601	116.8937	251.3637
4188	91.9606	0.5915	9.1017	33.1719	22.3639
13291	91.9346	500.4205	228.8126	170.4361	55.9152
4725	91.9346	500.0794	221.4606	84.4696	93.1704
11326	91.9087	82.5878	44.3182	192.7032	58.3028
8012	91.9087	50.4938	7.5181	29.4405	13.8090
7700	91.7790	130.7185	44.6686	39.2479	24.6893
5775	91.7790	286.7219	134.6842	25.8344	40.0816
13365	91.7531	27.3019	13.9094	80.7765	43.8288
17783	91.7272	686.6200	210.1304	234.4352	
11103	91.1212	000.0200	∠10.1304	234.4352	89.0104

TABLE 5FF: No	repinephrine-	Core Tox	Atty. R	ef. 44921-5090-0	1-WO/2105485	
Timepoint(s): 3, 6 hrs						
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
17402	91.6753	361.7129	84.0620	120.8395	52.7337	
10710	91.6494	64.5291	13.7797	100.4503	23.1614	
8290	91.5975	-22.2361	13.4745	25.3368	31.6710	
10837	91.5716	226.3690	71.4687	84.1778	40.4337	
22443	91.5716	114.8048	78.8654	32.8697	23.8497	
5675	91.5197	406.3161	126.2639	157.5955	137.4801	
11721	91.4419	34.3244	10.5013	77.0222	30.2750	
22666	91.4160	235.1778	80.8618	77.8863	36.8367	
12233	91.4160	267.2036	65.8534	105.4438	46.7134	

imepoint(s)	LDA Score	Mean Tox	SD Tox	Mean Nontox	ICD No.
22871	100.0000		<u> </u>		SD Nontox
8385	100.0000	282.1915			
353	100.0000	381.2930			
22630	100.0000	32.0160			69.706
21120	99.9485	168.2730		42.9443	
1238	99.9485	181.9290	0.0042	153.2225	
16499	99.9485	-2.6195	0.1174	95.7088	
1693	99.9485		0.7573	57.3633	33.686
11113	99.9485	-10.6570	0.0764	49.9027	32.934
17145	99.8969	36.4690	0.0071	36.2673	19.670
20746	99.8969	92.9605	0.1025	172.2985	46.149
17154	1	318.6620	0.6661	492.2122	121.599
15638	99.8969	642.6685	0.1280	863.0957	213.5928
17218	99.8969	521.2955	0.4179	929.6362	307.5192
1970	99.8969	441.5540	0.2800	363.4876	95.735
	99.8969	172.2320	0.1131	123.1975	40.7748
3455	99.8969	163.8175	0.0658	139.2460	43.341
25638	99.8454	28.0365	0.0530	17.3435	8.934
20740	99.8454	269.2450	1.1003	451.9244	144.8152
20731	99.8454	34.5160	0.0170	28.2257	9.8173
1852	99.8454	2247.2410	0.4765	2519.8118	502.0537
322	99.8454	31.1435	0.0191	19.1650	11.4591
21062	99.8454	136.3905	0.1068	69.9867	37.8547
21400	99.8454	51.6450	0.2305	106.0690	32.2390
1625	99.8454	35.0385	0.1676	13.3271	12.2350
17894	99.8454	146.7080	0.0735	168.1589	37.2733
22763	99.7938	78.9745	0.8167	40.9825	12.9541
21498	99.7938	12.4685	0.0205	31.5048	18.7609
10819	99.7938	1241.1000	0.5813	1735.3772	412.1568
25593	99.7938	237.3455	1.0317	135.8000	39.4852
21682	99.7938	30.0825	0.7248	-9.2475	55.5637
17202	99.7938	49.2500	0.0325	36.4196	10.9219
5283	99.7938	117.2625	1.1830	67.2504	18.0698
1463	99.7423	263.6415	0.3175	364.7819	135.6430
17181	99.7423	317.0000	1.9106	191.7197	62.6368
18430	99.7423	314.4045	0.6300	208.5937	71.2632
436	99.7423	24.2485	0.2949	58.5359	17.3593
18694	99.7423	31.5855	0.5424	-7.0364	26.3577
16401	99.7423	645.7720	0.9390	1039.6784	520.0369
19658	99.7423	45.0500	0.9518	12.5121	15.5439
2697	99.7423	1502.2910	2.2868	2254.4653	411.6071
4422	99.6907	19.8810	0.0127	25.0508	6.7236
1952	99.6907	39.0605	0.0559	21.2590	10.8957
22661	99.6907	2011.6865	1.8066	2453.7766	431.6276
17626	99.6907	639.4775	0.1181	733.3278	139.0769
20242	99.6907	25.9245	0.0898	2.8847	14.0621
8384	99.6907	208.5360	0.4695	96.5039	53.1497
17661	99.6907	191.8995	0.0827	190.0693	49.9046
4809	99.6907	101.6030	0.0467	79.9599	21.4435
16219	99.6907	609.0060	0.8499	786.7393	259.2468
14754	99.6907	159.2985	0.1549	129.1452	24.2971
15683	99.6392	190.3800	1.1116	102.5670	41.8290
21807	99.6392	23.4740	0.0679	6.9674	13.5151

TABLE 5GG: PHENYLPROPANOLAMINE Atty. Ref. 44921-5090-01-WO/2					
Timepoint(s) GLGC ID	: 3 hrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
20849	99.6392	1044.1320	1.9474	794.4656	153.2125
9082	99.6392	32.6350	0.0184	37.6016	10.2287
17936	99.6392	28.5700	0.0156	28.9933	10.7315
16581	99.6392	13.9605	0.0474	25.6337	13.9842
15301	99.6392	177.3230	2.2062	100.6605	84.9474
18899	99.6392	60.6635	0.0403	46.7844	12.2248
16006	99.6392	61.9780	0.0523	45.2072	17.1592
18365	99.6392	125.6865	0.1011	112.7902	77.1278
531	99.6392	114.2270	4.8437	52.4727	17.1357
17991	99.5876	38.0675	0.0983	26.0638	9.2630
25278	99.5876	17.9070	0.0311	20.2940	
25647	99.5876	361.9505	0.6894	247.9105	
23194	99.5876	133.3105		77.0038	
25264	99.5876	41.5630	0.5218	88.3147	40.3559
15888	99.5361	673.6840	0.6109	790.2653	146.7649
21002	99.5361	137.8110	0.3861	191.4369	
18274	99.5361	348.0135	4.7751	558.8275	
1918	99.4845	20.1245	0.1336	3.2394	
16649	99.4845	216.8705	0.2199	259.9159	56.4421
17075	99.4845	211.1840	5.8548	349.3276	65.4254
6525	99.4845	483.0040	5.6286	759.7738	135.9332
11258	99.4845	48.4830	3.9301	8.4739	24.7728
25538	99.4330	88.7140	1.0974	52.1067	20.0355
25411	99.4330	7.6315	0.0219	22.8935	102.7940
3910	99.4330	162.1815	0.1167	145.3141	35.4469
8661	99.4330			10.8047	59.9154
16482	99.4330	141.6685	0.3387	194.3194	
18482	99.4330	78.0675	0.2722	44.8844	
24327	99.4330	987.6825		1627.0752	
11935			1		28.6046
8586	99.4330				
3474		342.8520		562.2097	105.2426
17958	1	73.3915	1		
16954					
3802					
17083	99.3814	94.0705	0.1407	68.1044	24.9319
1016	99.3814	178.2220	0.7651	94.6033	45.4244
25133	99.3814				
24248	99.3814	59.5815	0.2199	84.6218	129.8911
8662		678.8710			
20939					
753					
16081					
2119					
734	 				
20281					
8663					
18135					
13504					
12367					
3486					
23452	100.0000	87.2960	0.1273	127.5112	27.7784

TABLE 5GG: PHENYLPROPANOLAMINE Atty. Ref. 44921-5090-01-WC					
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12261	100.0000				46.6706
16447	100.0000		0.0969	22.2409	30.8260
9629	100.0000			109.4844	
7992	100.0000		0.0050	139.4257	42.5549
11256	100.0000		0.0049	45.2588	24.4283
4827	100.0000	368.6650	0.0057	297.3386	72.8624
21522	100.0000	-5.6725	0.4773	281.9593	145.1068
1906	100.0000	296.1400	0.0721	260.3344	111.4857
4143	99.9485	211.6065	0.1181	163.5920	41.4410
6364	99.9485	130.6750	0.0269	204.3970	58.9655
8965	99.9485	-6.7810	0.0523	21.9504	18.0453
19012	99.9485	859.4450	1.9898	456.8430	117.1700
4102	99.9485	45.2145	0.0106	25.3158	23.5775
24346	99.9485	22.2060	0.0057	22.7899	13.3460
13886	99.9485	89.1165	0.0219	70.9494	23.5754
11606	99.9485	38.8675	0.0389	59.8457	25.5865
9604	99.9485	1745.8500	7.3115	401.4725	410.1580
8099	99.9485	-5.3630	0.0382	23.7230	13.6996
23756	99.9485	112.8855	0.0149	488.9448	451.6976
5486	99.9485	42.9570	0.0933	-0.6565	26.3667
7852	99.9485	218.7985	0.1337	311.1944	72.4066
7584	99.9485	-11.1985	0.1435	52.0467	68.1599
23730	99.8969	38.6280	0.0354	24.8364	14.4108
14720	99.8969	104.1585	0.0884	50.4903	41.8844
12399	99.8969	215.2455	0.1605	145.4078	40.4092
7285	99.8969	247.7395	0.1167	216.2511	38.4607
5775	99.8969	152.3685	1.5549	27.7251	47.4649
6192	99.8969	-354.8340	8.0441	237.4106	255.7853
7193	99.8969	20.8670	0.0311	2.5197	19.4278
22267	99.8969	130.1385	0.0926	85.0324	51.7028
5983	99.8969	487.2100	0.1839	583.5955	202.5020
3162	99.8969	366.2300	1.5005	200.6923	67.7833
2582	99.8969	171.0265	0.5480	92.5514	34.7755
2674	99.8969	224.5095	0.0332	267.6288	131.5045
18188	99.8969	39.1870	0.0255	31.5260	17.8793
15089	99.8969	213.8270	0.3606	131.2459	49.1067
23644	99.8969	-25.2295	0.0983	36.3866	35.2960
14028	99.8454	193.4115	0.4264	123.9913	57.6787
6667	99.8454	71.0770	0.0424	91.2817	19.4419
13673	99.8454	50.4420	0.0255	28.8487	11.8323
8458	99.8454	266.1145	2.8235	166.1049	30.2839
24200	99.8454	779.5775	0.2510	653.9327	203.8749
10665	99.8454	284,4280	0.7693	162.6899	74.5278
12289	99.8454	40.3230	0.0792	22.4664	15.4457
23952	99.8454	15.6945	0.0686	45.1670	23.7826
19121	99.8454	3057.4551	0.5289	3028.0362	555.0941
7212	99.8454	70.1740	0.0438	74.6855	32.5412
20345	99.8454	145.6510	1.1215	81.5308	23.2042
10004	99.8454	77.9140	0.0764	53.1737	27.7288
8109	99.7938	33.7050	0.0269	53.8145	17.8506
22786	99.7938	799.4390	0.4737	625.2440	193.9831
17291	99.7938	4720.8425	2.9379	4713.7458	1125.9869

TABLE 5GG:	TABLE 5GG: PHENYLPROPANOLAMINE Atty. Ref. 44921-5090-01-WO/2105485						
Timepoint(s)	: 3 hrs						
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
14352	99.7938	206.7885	0.0686	188.1594	29.9107		
4163	99.7938	-29.4145	0.2722	40.4796			
21998	99.7938	134.0315	0.2369	207.1661	96,4055		
3557	99.7423	42.1170	0.2828	78.1881	24.0155		
12829	99.7423	174.8815	0.2694	241.1290			
18427	99.7423	28.6200	0.0877	9.9802	17.7337		
12999	99.7423	857.1445	7.8538	337.2493	308.4064		
547	99.7423	689.5490	0.4455	676.8199	101.5816		
7122	./ 99.7423	344.5180	0.5233	298.6755	105.2170		
14722	99.7423	349.6955	0.2581	492.6213	181.0495		
10182	99.7423	45.7590	0.2051	33.4329	103.8738		
17236	99.7423	747.2100	2.5428	429.2370	135.6359		

-GC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
23282	96.6321	<u></u>			55.2418
15003	96.3731	292.5183		95.2474	
15002	95.6477				
11955	94.7150		26.0833	1038.0379	272.5287
14017	94.6114			240.5996	73.6904
18274	94.1451	375.4566	28.4677	559.7208	137.2678
25556	93.2124		5.6114	29.7573	31.8675
11745	93.1088	404.8954	25.9654	531.2629	83.2120
17255	92.6425	83.6826	15.2779	51.0805	18.0864
23574	92.6425	1552.3563	72.2094	2097.5285	437.3683
18509	92.2798	484.3571	63.9467	694.1347	146.5206
13051	92.2280	27.3324	3.6170	16.1123	6.4455
862	92.2280	310.8466	27.2636	418.1332	64.9605
20083	92.1762	48.1340	2.6821	40.3216	21.7037
18290	92.0207	509.1194	34.8874	332.0679	115.9617
17570	91.7098	307.3379	28.6175	209.2414	61.3221
11953	91.6580	398.8276	77.9296	662.3780	184.8179
15166	91.6580	514.5230	52.5308	739.6475	145.8042
16514	91.6062	430.0497	48.1219	614.0355	129.4950
18378	91.0363	128.7649	7.9406	165.6063	31.0429
25589	90.8290	364.5660	41.5931	255.7049	60.3220
18686	90.8290	572.7926	104.2364	911.7203	228.8290
11954	90.7772	1672.2456	175.0063	2344.3517	494.6533
16007	90.2073	50.4853	6.4947	29.7826	22.9260
24598	90.2073	315.7369	10.3925	264.4997	43.0715
25918	90.0000	80.6966	8.3625	54.8994	39.3756
13323	89.9482	223.7043	31.6749	139.5109	113.3996
25377	89.8964	49.8599	12.7428	27.0748	15.4113
11531	89.8520	1192.2064	583.2821	404.9046	287.4400
18687	89.7927	485.6997	71.5381	738.1348	185.6825
11530	89.6447	714.7133	319.9269	208.3621	168.4034
18480	89.5855	466.2059	97.7725	257.8981	127.8104
19710	89.4819	69.3371	11.2650	48.5251	23.1099
1529	89.4301	61.6946	2.7659	50.8535	13.3227
11994	89.3264	84.3529	10.8849	121.4100	26.2193
20848	89.0674	1955.7463	153.6749	1610.9763	277.7725
18275	88.9637	403.5536	32.5152	524.5248	96.3246
20925	88.9119	883.0746	122.1168	1306.5312	334.9510
20832	88.9119	1360.6574	100.1177	1774.1365	387.1552
1190	88.9119	29.0673	3.8404	16.4193	9.0588
20875	88.4974	458.3149	46.8834	689.7731	204.4667
18246	88.3420	45.6010	9.1258	23.0123	36.8751
22781	88.2902	190.9210	40.6469	123.2367	56.2668
15213	88.2902	36.7447	7.9841	18.4398	12.8703
16566	88.1347	46.9776	5.7708	33.5268	10.0833
8829	88.1347	349.8157	26.7008	268.0625	71.0694
20938	88.0311	1613.9081	152.1232	2056.1340	353.1722
10888	87.9793	71.3309	11.1992	52.4854	31.1755
1258	87.8756	33.1121	5.3294	16.5840	15.0523
16468	87.8238	1624.4816	97.1392	2021.7983	356.3830
1763	87.7202	125.3086	60.4036	109.4191	149.6196
25692	87.7202	264.4379	46.7915	173.7627	77.5621

TABLE 5HH: P Timepoint(s):	PHENYLPROP 6, 24 hrs	ANOLAMINE	Atty.	Ref. 44921-5090-0	01-WO/2105485
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1743	87.6166		2.2076	20.7862	10.9283
2262	87.3575			95.9424	
9124	87.3057	223.1137	7.9505	213.4996	42.7349
16340	87.2539	60.3917	9.4543	31.0146	
17203	87.2539	1772.4377	199.6902	2512.4899	721.4748
1048	87.1058	90.5180	37.1124	31.8054	22.7416
425	87.0466	35.5210	6.0923	20.8300	11.6333
7207	87.0022	67.7761	21.4276	32.6028	15.6886
9029	86.9948	334.8343		444.5613	106.2402
14015	86.8986	272.5329	107.2673	101.1813	67.1043
15011	86.8912	120.9673	17.9317	84.6938	28.9688
18569	86.8468	3045.8633	766.5001	1593.0368	600.0095
21416	86.8394	157.8959	22.0795	110.5525	38.4310
20582	86.8394	361.1994	49.1565	493.3099	97.9212
20417	86.7876	307.6200	25.0861	235.6386	62.5571
17305	86.6839	3601.7647	221.6319	4627.6390	1378.7428
20628	86.6321	466.5057	66.0002	316.5499	131.9943
11989	86.5803	50.2694	6.4633	35.6511	12.9634
25590	86.5285	73.1583	5.8480	59.0984	23.5690
20855	86.5285	569.9809	39.3160	700.8075	122.7485
623	86.5285	147.8191	10.3632	164.9374	60.4766
14621	86.4249	132.9804	10.6645	169.2472	36.9981
18770	86.3731	556.1281	53.8248	688.1387	104.3536
17686	86.3212	963.0883	48.2210	1133.9716	219.4970
20856	86.3212	942.6401	51.6837	1096.2841	187.3694
25716	86.2176	1109.6887	150.5948	807.0937	362.0858
1929	86.1658	741.1960	62.4841	950.6275	205.9505
1427	86.0622	29.5961	5.8026	15.8735	10.9553
17759	86.0104	49.6866	10.8265	85.4551	36.7873
23710	85.9660	529.3191	73.5864	329.4104	100.0248
17159	85.9585	1260.6044	101.0225	1019.7509	246.1818
11966	85.9585	305.8084	25.9266	381.2756	69.6767
23011	85.8031	39.4394	4.3848	29.7453	9.0599
16546	85.7513	172.7831	38.3790	261.2547	70.6676
20879	85.7513	46.6570	7.3709	81.3752	45.6809
449	85.7513	2997.3389	246.8743	3834.6812	1041.0001
15291	85.6477	47.0491	4.1811	35.9738	9.8753
20997	85.5959	61.9484	5.9282	45.2079	15.5244
450	85.5959	3128.0366	170.6099	3755.0537	786.3385
22670	85.4922	73.1264	6.9285	58.6469	22.3076
1061	85.4404	86.9340	22.3149	73.3214	45.3425
25686	85.4404	1035.4801	46.0477	972.7482	197.9158
17564	85.4404	322.3890	27.0546	415.0968	80.8663
17345	85.4404	189.0813	14.8041	150.9683	38.5857
3692	85.4404	173.2706	10.8216	175.4433	50.7958
17394	85.3886	446.1611	53.8995	355.1608	92.2841
15150	85.3886	111.2653	16.6139	154.2286	39.3321
16524	85.3886	27.0314	1.4365	24.0146	6.6058
3211	98.0311	66.6360	34.2891	5.9667	17.9288
22077	97.0984	363.6396	107.5762	163.4551	61.1284
367	96.9430	94.7897	23.9348	27.9197	20.3222
21284	96.8912	62.8293	24.6617	12.2743	17.5318

TABLE 5HH: PHENYLPROPANOLAMINE Atty. Ref. 44921-5090-01-WO/210548 Timepoint(s): 6, 24 hrs							
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
320	96.7358	1210.3160	72.5440	1885.0138			
6606	96.2176	3922.3684					
5876	96.1140	1839.2570					
24209	95.8031	91.4460	34.1551	2.7632	41.7302		
13293	95.3886	229.8451	22.0740	116.1949	53.1753		
13227	95.3886	81.3164	9.6413				
14871	94.8705	215.3607	41.5905	123.1735	34.2931		
11404	94.7668	150.3903	16.7821	104.6500	35.2325		
2822	94.6114	91.8054	9.6384	135.4241	26.8619		
2765	94.1969	183.5886	19.0895	115.0886	33.3684		
17679	93.8860	343.9430	34.0654	517.0982	116.2747		
13786	93.4715	14.4553	7.8845	74.7719	36.6844		
2339	93.0570	306.7930	10.9140	386.3540	75.6052		
2292	92.7979	25.2096	13.6850	-71.6174	71.0186		
5929	92.6943	209.0469	22.1540	137.3411	38.7212		
7740	92.5389	428.8254	45.4969	299.7705	66.9086		
4891	92.4870	103.6429	19.0689	57.8671	25.1173		
15085	92.3834	743.4240	45.8589	973.9295	173.8610		
6731	92.2798	62.2046	9.5695	36.2936	15.2971		
23013	92.2280	444.5369	41.6573	327.2587	66.8489		
2479	92.1762	58.0911	6.0372	36.3388	17.7573		
4073	91.9689	644.9791	74.1188	1029.5107	285.9729		
2140	91.9689	209.0921	12.5349	304.0739	78.0431		
2210	91.7617	2139.1216	135.2739	2737.1711	440.8233		
2085	91.7098	1261.3720	78.2204	1731.5486	370.4574		
11363	91.3990	315.3564	23.6801	210.2154	72.5573		
16547	91.3990	461.0147	64.7025	725.5751	191.6030		
4480	91.3990	41.1996	10.5207	7.3608	19.7165		
3100	91.3990	794.9033	65.6045	1097.4930	215.4171		
22266	91.2953	343.4190	13.1320	288.1070	53.1166		
12117	91.2435	441.3817	36.2464	591.7778	123.9976		
17914	91.1399	202.8573	20.2436	329.1647	103.5805		
8609	90.8808	86.1916	8.4037	54.0325	20.7432		
24314	90.8290	42.9569	5.1119	27.7019	10.7034		
6281	90.7772	257.7624	27.9984	361.0210	72.9734		
12581	90.6736	68.4811	11.4932	46.8436	19.9619		
21446	90.6218	132.5327	6.9337	103.4067	25.3453		
18151	90.6218	257.7351	12.2031	331.2631	71.1854		
8692	90.6218	134.0539	73.2045	294.2883	95.2647		
7147	90.5181	853.3451	41.3161	1022.9910	159.9812		
2363	90.5181	1101.3957	92.1394	1401.1085	254.0833		
12887	90.4145	510.7066	47.6326	681.5103	136.1835		
13929	90.3183	266.3954	67.2132	110.0210	47.6954		
12583	90.3109	40.6801	5.7975	28.6403	13.1969		
13826	90.3109	1059.8284	121.9072	1392.5923	237.9938		
15685 8180	90.3109	915.3636	83.4273	1260.3512	258.3780		
	90.2591	76.0079	9.2527	43.5807	22.4886		
13645	89.8964	142.6637	7.1546	108.4173	27.0982		
3973	89.8446	60.4890	4.6992	44.4703	13.9335		
6969	89.7927	399.7476	63.0653	581.1672	129.8956		
2316	89.7927	164.8530	11.1358	118.7672	37.2458		
21948	89.7927	326.6289	16.6420	425.4622	91.7499		

TABLE 5HH: I Timepoint(s):		ANOLAMINE	Atty.	Ref. 44921-5090-	01-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
12450	89.7409	649.2902	71.1500	921.7609	230.2443
16777	89.7409	3862.9322	219.1471	4933.5552	
18104	89.6373	33.0127	7.9853	14.0382	11.4553
11086	89.6373	33.5664	9.1862	13.4786	13.1159
12878	89.6373	115.4013	12.0559	81.3163	24.2775
14013	89.6373	123.6516	24.3626	53.6167	52,4413
19118	89.6373	123.5876	6.3026	152.9155	39.3103
23296	89.4301	187.5871	8.8887	231.0563	
3213	89.4301	232.0496	8.8971	257.7325	
17847	89.3264	764.5647	65.5905	989.3253	179.9629

TABLE 5II: ROSIGLITAZONE Atty. Ref. 44921-5090-01-WO/21 Timepoint(s): 24 hrs						
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
24472	99.7420				52.0969	
12253	99.5356	L	1.6809	23.7028		
1316	99.4324			220.3667	67.6377	
11857	99.3292	23.4130			43.8486	
12022	98.8648	13.3380	1.7736	49.2371	23.7502	
8098	98.7100		13.1359	461.1968	97.7406	
21801	98.7100	275.7437	19.5469	159.9897	36.2335	
24875	98.2972	37.8720	0.2612	30.1976	12.9865	
5497	98.2972	65.3230	0.2242	64.6593	17.3946	
15975	98.0908	42.0350	0.3971	56.9127	24.7697	
21350	97.9360	13.7053	1.8179	45.0369	18.3348	
7505	97.8844	144.1997	0.7750	125.3235	24.6020	
18317	97.8844	629.8513	5.9087	634.9720	291.6547	
17854	97.8844	327.4563	58.2752	161.6262	43.1507	
951	97.8844	44.4547	2.8004	17.1017	14.0243	
18402	97.8328	54.1813	3.2482	27.5530	9.5239	
17896	97.7812	22.5927	0.7072	19.6479	15.6981	
20421	97.5232	144.1200	12.2177	86.3885	18.1558	
15311	97.3684	32.9633	0.7168	48.1633	21.7810	
17530	97.3684	107.8800	0.6250	95.1970	23.9127	
15364	97.3168	71.8460	0.7089	58.6785	19.5286	
16016	97.2652	33.4540	0.5998	22.9672	8.1713	
20600	97.2652	44.5330	2.5682	21.3412	12.9524	
17752	97.2136	81.6657	14.7103	29.7740	15.5684	
25070	97.0588	162.9857	1.0567	160.2047	36.8995	
501	97.0072	20.1930	0.3634	25.8435	13.9533	
1708	96.9040	44.4910	0.5296	54.3027	15.9547	
18621	96.8524	-5.7877	1.6834	34.6783	31.4197	
19512	96.8524	1588.0173	48.5040	1082.3959	326.4748	
15077	96.8524	97.6783	11.2089	49.3145	88.6180	
20982	96.8008	145.7583	7.6887	221.6117	51.0323	
23042	96.6460	197.3407	8.6586	106.7764	46.1545	
18444	96.5944	20.6473	1.0310	7.6059	66.5132	
14285	96.5944	25.4840	0.1620	23.6379	6.4633	
11794	96.5944	46.2100	3.1632	21.6649	12.3448	
15136	96.5428	1155.0750	12.7427	1073.2833	274.6143	
1467	96.5428	61.8283	16.5016	131.3942	30.1303	
7594	96.4912	28.0340	0.5483	21.6667	9.7468	
15353	96.4912	28.4327	1.0063	19.3194	16.9895	
16446	96.2848	38.8180	0.4042	34.9380	9.2352	
23551	96.2848	46.8823	3.2267	18.8815	17.5348	
15190	96.2332	105.7410	2.7242	244.0274	340.9260	
17350	96.2332	40.8510	2.3119	69.9725	23.8683	
25793	96.1300	4.2637	0.8715	22.9080	13.7883	
1028	96.0784	9.9707	0.5105	22.7991	17.4441	
1376	95.9752	23.5600	0.5183	16.9839	5.9008	
20056	95.9752	105.1077	5.6354	153.9815	29.3965	
20818	95.9752	185.2633	5.4172	137.3185	39.7174	
24718	95.9236	18.8950	0.6354	27.9234	8.9048	
1323	95.9236	197.1023	4.0302	183.9743	78.7005	
4500	95.8720	414.6623	43.8882	284.2921	53.4068	
24617	95.8204	30.8503	15.5449	-5.4250	15.3317	

TABLE 5II: ROSIGLITAZONE Atty. Ref. 44921-5090-01-WO/21054 Timepoint(s): 24 hrs							
	LDA Sçore	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
546	95.8204	194.8440	3.1588	230.1816	51.195		
16681	95.8204	21.6667	5.1952	2.4465			
4832	95.7172	775.9433	8.5998				
983	95.6140	128.6430	1.4157	119.2699	32.6170		
8139	95.6140	23.1377	1.3032	12.1322	7.7866		
19909	95.5108	21.1263	0.8218	35.7468	22.6303		
16456	95.4592	255.4150	22.1686	159.3539	43.1845		
15957	95.4592	556.3827	29.7318	364.8595	103.2332		
20890	95.4592	118.9190	17.5009	61.3683	29.0677		
506	95.4076	15.0697	0.4476	21.5576	7.4886		
16715	95.4076	38.3687	4.2783	15.5772	12.6152		
18898	95.3560	54.2523	0.8445	62.3646	14.7063		
22145	95.3560	98.1663	3.8046	62.9135	33.4365		
24628	95.2528	447.0150	41.9194	312.6532	61.2449		
18563	95.2528	49.5193	10.3168	25.7709	8.9952		
104	95.2012	28.1137	0.7287	36.4934	11.1743		
22584	95.2012	57.9050	7.0705	30.3178	13.4558		
19505	95.2012	75.6870	4.1889	49.6742	16.3861		
15980	95.0464	125.0830	19.6528	77.0015	20.9698		
17287	95.0464	64.3560	11.7193	31.8702	12.4662		
4133	94.9948	143.7777	8.5126	103.6586	20.9762		
15748	94.9948	41.3827	1.3871	26.1896	12.0762		
11982	94.9948	49.1207	0.9843	38.9172	13.5343		
23871	94.9432	29.7637	0.6199	42.2141	22.8888		
18949	94.9432	140.1103	1.4782	151.1395	38.5018		
1822	94.9432	21.5107	0.4403	23.7649	9.6350		
22625	94.9432	108.8400	12.9449	65.9630	32.1963		
957	94.8916	17.5493	1.1851	34.9745	22.7440		
15511	94.8916	526.8320	7.8951	512.3926	127.6345		
24697	94.8916	190.7280	7.0129	155.0495	43.0660		
15844	94.7368	39.7727	0.5520	39.7593	11.8411		
17508	94.7368	40.9170	1.0277	30.7312	10.7056		
6892	94.6852	80.6820	1.5026	68.3677	36.1805		
22916	94.6852	898.5600	35.8058	667.8349	138.1971		
21972	94.6336	169.8320	1.7219	166.5296	33.5529		
15165	94.6336	220.2500	6.6959	179.3605	54.2251		
23705	94.5820	436.1430	70.3843	264.3237	68.1876		
19124	94.5304	80.5830	20.9013	26.8310	22.5233		
16155	94.4788	20.0507	0.4562	27.4904	16.4814		
16082	94.4788	72.9257	14.5015	37.5357	15.8036		
10886	94.4788	29.2663	5.0680	89.4606	71.7197		
82	94.4788	8.3277	19.7431	35.7844	13.6356		
19667	94.4788	23.2083	1.2392	9.3084	14.6636		
24471	94.4272	124.0640	5.3375	89.1225	32.4936		
15598	94.3756	445.8727	97.3531	769.5472	158.9894		
16675	94.3756	49.2383	8.7158	23.6577	17.4757		
1638	94.3756	98.9327	5.8472	152.7614	49.9279		
20647	94.3756	30.8430	1.9821	15.5861	10.3438		
9979	99.5872	9.8250	0.0605	20.9416	12.0624		
13266	99.4324	36.1200	0.5561	95.0549	45.4090		
10004	99.3808	44.3577	0.1781	53.2520	27.7615		
3547	99.1744	73.7057	4.8615	8.1680	17.5728		

	ROSIGLITAZO	DNE	Atty. Ref. 44921-5090-01-WO/210548			
Timepoint(s	s): 24 nrs LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
2055	99.1744		0.2568	47.7918	16.5450	
23828	99.0712	59.2920		58.3427	27.8960	
5996	99.0196			86.7945	25.2704	
20924	99.0196	920.4167	24.3389	556.9585	145.0918	
6014	98.9164		0.4908	81.6568	48.1453	
5513	98.9164	26.9637	0.0876	24.2733	19.9713	
7520	98.8648	39.0613	0.1274	38.8223	22.9392	
6821	98.7616	125.9117	0.9537	181.8108	52.3404	
2261	98.4004	4.0707	3.0124	46.7104	24.7259	
9838	98.3488	364.5093	5.9464	226.8268	103.4810	
10233	98.3488	46.7777	13.2959	142.1598	44.0484	
24146	98.2972	137.2997	2.0674	202.1487	49.6015	
10900	98.2972	119.5810		118.5750	39.4364	
3257	98.2456	51.7370		198.1059	74.7974	
21508	98.1940	106.3280		77.0680	16.5581	
11160	98.0392	48.3053	1.3174	83.3922	56.6098	
23277	98.0392	68.8487	2.0289	30.8753	23.4431	
12043	97.9876		44.4038	128.5108	79.4231	
3969	97.9360	504.4400		361.7481	93.5438	
11412	97.9360	159.9210		85.4271	40.4729	
7715	97.8844	13.0380		33.6916	11.9323	
6745	97.8844	53.2420		-0.2863	34.9115	
18811	97.7812	43.8537	0.5556	54.5499	22.4362	
22737	97.7812	1095.0910	10.4442	1368.8336	415.2679	
3353	97.7296	130.9480	1.4366	93.8077	27.0583	
4080	97.6780	258.0857	1.5790	209.6585	63.3883	
3625	97.6264	512.6547	10.0059	344.9622	125.2036	
14901	97.5748	7.2960	0.8259	38.1981	31.5191	
23998	97.5748	60.1213	1.2333	37.6604	14.2978	
3316	97.5748	81.3407	1.4270	55.7346	29.2755	
17664	97.5232	64.0910		68.5611	29.4583	
12690	97.4716	41.8730		51.9646		
23937	97.4716	14.6573		21.4351	24.0086	
14101	97.4716	71.3150		94.0315		
20106	97.4716		2.6341	198.3327	102.5249	
23237	97.4200	551.6417	19.8714	865.9790		
14463				356.3683		
7903	97.4200			17.2892	12.8793	
23289	97.3684					
21754	97.3684					
13592	97.2652					
11024	97.2652					
17231	97.2652					
12102	97.2652					
6251	97.2136					
22755	97.2136				33.3201	
7880	97.2136			73.9560		
8273				1458.7760		
13712	97.1104					
19005	97.0588			32.5703	21.4578	
4774	97.0588			179.0155		
2534	96.9556	59.4027	0.6839	47.0757	13.7709	

TABLE 511:	ROSIGLITAZO	ONE	. Atty. I	Ref. 44921-5090-0	1-WO/2105485
Timepoint(s): 24 hrs				
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19474	96.8524	482.7043	4.7665	451.1035	171.2731
23929	96.8524	119.9370	3.0490	84.1205	26.0640
6829	96.8524	71.9370	2.2959	47.3094	17.4432
884	96.8524	157.9607	1.5650	149.8314	41.4744
16668	96.8008	126.9523	2.9561	85.1508	27.2459
8124	96.8008	82.3080	7.0661	40.3686	17.8861
2456	96.8008	113.5797	6.5179	71.7085	22.5480
5002	96.7492	106.6370	1.0650	127.3864	25.2245
21604	96.7492	555.9780	80.8008	321.7814	84.0405
19467	96.7492	189.9040	11.3668	298.0918	72.6472
22439	96.7492	127.7150	17.7419	55.7336	52.2231
3997	96.6460	50.1093	14.4782	139.3108	40.4989
10532	96.6460	97.7030	3.1952	70.9501	20.2826

Timepoint(s				ef. 44921-5090-01	-WO/2105485
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
22499	75.6185				9.4155
1530	74.2041		33.4574		39.7345
11422	73.1898	85.9764			30.0944
15402	72.8374			340.2954	57.4511
17217	71.9823	350.7624	83.8685	419.1402	72.1336
1521	70.7964	98.4309	43.5447	63.7035	
4473	70.4132	90.9636	22.7675	114.9192	25.6330
9378	70.2415	100.9102	39.0637	135.8928	38.9239
17215	70.1358	140.3519	46.7323	173.9482	36.5854
5049	69.4194	653.5915	198.0143	761.5973	154.5657
19976	69.3990	40.2866	10.3838	50.3488	12.1908
24875	69.2614	21.6493	10.7901	32.1978	12.7463
11423	69.1954	157.6573	49.6884	214.8633	66.0918
23058	69.0237	232.9766	65.6118	295.2279	67.8701
20972	69.0010	845.8319	228.4433	1028.8737	206.7711
15761	68.9464	23.3670	16.7164	34.5911	14.8369
18655	68.7418	107.6260	62.1282	167.7966	57.8838
19650	68.4950	263.9817	56.8728	325.8264	64.7982
8210	68.3631	57.4586	22.8477	80.0516	27.4342
21444	68.3597	136.5334	82.1857	71.1793	38.0707
1340	68.2733	1100.5494	220.9089	1290.4251	198.7156
19279	68.2403	158.3076	24.7864	179.0857	21.3291
10743	68.2199	139.7771	37.2153	170.4504	42.1306
20448	68.1937	200.0502	283.8492	54.1081	31.5035
17137	68.1414	656.8594	253.9941	892.0875	228.5328
16342	68.1414	28.4823	13.5937	36.5884	11.7237
20848	68.0470	1790.4577	279.1314	1568.6877	254.0128
10248	67.9470	380.7530	114.3829	294.6245	71.8207
13789	67.8560	35.6846	11.4824	49.3703	14.5261
6980	67.8105	119.7477	42.4442	154.0515	38.5185
16725	67.8083	21.0355	12.6859	13.3580	7.6181
23368	67.7832	342.8849	89.3216	422.9070	86.0283
12010	67.7571	161.2940	37.9738	198.3717	49.9862
16123	67.7093	151.7510	84.6333	97.4968	34.5563
24362	67.6127	70.1349	21.0065	83.7830	19.9340
4339	67.5354	330.9076	59.9258	376.9540	58.0307
15379	67.3819	86.2432	32.6069	115.5606	35.7516
1271	67.3750	71.4633	17.5343	82.4708	
20177	67.3102	28.9418	16.2224	45.2501	14.7182
17296	67.2704	31.4375	8.7784		18.6935
24763	67.2386	145.2555	55.4727	37.8552	8.0298
17601	67.1385	177.2865		178.1109	61.5849
25545	67.0726	292.3751	41.5957 125.5411	208.3250	38.2134
16205	67.0123	1735.3080		360.7596	112.0516
10887	66.9805	67.1386	245.2707	1528.1296	279.4525
20729	66.9566		21.2123	91.3261	30.9001
16518		698.2047	127.5898	788.2066	117.8244
18403	66.9543 66.9339	1021.8743	506.7264	732.4187	169.6207
64		2385.3237	624.8610	2798.2098	541.7250
13092	66.9032	97.8079	25.3021	124.9819	33.1042
24234	66.7474	154.7147	56.2731	198.6891	54.3053
13574	66.7451	103.2255	54.4972	72.8244	23.1475
100/4	66.6905	114.3515	29.1618	98.1320	20.9062

GC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3692	66.5893	155.3092	L.		<u> </u>
15032	66.5382	33.1735			9.7445
20734	66.5132	145.0892	98.4298		26.7804
11352	66.4768	266.1557	69.8218	311.6899	
16204	66.4711	1406.6185	208.4569	1244.8317	193.7024
17218	66.4677	313.9458	79.0318	376.5280	
18360	66.4563	346.4218	85.2672	426.0018	
1719	66.3949	156.4190	48.4436	192.6382	46.9362
19048	66.3517	52.1643	20.6674	68.5798	24.8104
16947	66.3460	64.6320	19.0932	77.9823	20.8584
21722	66.3392	78.8460	28.5022	97.4257	24.5642
19649	66.2733	77.2451	23.2617	99.7705	22.8430
15767	66.2687	185.6237	46.5275	222.2000	50.5705
561	66.2516	430.8957	72.4243	495.6473	76.5463
23300	66.2346	952.1552	173.8440	1085.2464	163.2462
24662	66.1027	156.7100	39.5070	183.0955	38.7900
25479	66.0254	1722.2655	325.7824	1991.8786	338.8588
15468	66.0083	1436.5322	229.7038	1276.1137	212.9131
11530	65.9230	382.9851	353.7153	177.7582	87.6155
8211	65.8912	828.4386	237.9910	659.2601	154.1607
24873	65.8560	379.1240	64.7791	435.5892	77.2116
19278	65.8173	90.0442	30.9386	116.4107	38.5619
14580	65.7684	26.6497	11.7230	32.3422	13.6095
1170	65.7479	90.3365	27.3135	72.4629	17.7150
21069	65.6854	41.7827	10.6361	51.4599	14.6778
4327	65.5387	108.9996	31.7510	88.2913	26.4895
24419	65.5251	87.8761	57.7349	60.3946	71.2141
11745	65.4910	479.0887	84.5144	542.6919	79.8628
23715	65.4603	32.3760	54.2645	6.1169	14.4939
13938	65.4421	77.6296	19.5470	93.8024	22.4060
7164	65.4148	75.5764	21.5404	94.6448	27.7397
25795	65.3875	278.7450	102.4319	364.5919	132.0502
15410	65.3750	1163.7670	225.4294	1323.9725	212.6852
15617	65.3625	22.0207	10.8451	13.6338	7.1597
15125	65.3568	73.4162	25.4616	55.7064	17.4314
4448	65.3261	29.2971	10.2480	36.2998	10.4588
24420	65.3238	1652.0605	361.4076	1453.4235	277.2366
3623	65.3034	30.9912	14.5403	40.3320	
17963	65.2818	191.6866	68.4033	233.2032	13.1050
16485	65.2715	193.8563	39.4326	223.3569	76.8655
10185	65.1976	26.7998	12.4135	32.3165	43.3008
1731	65.1874	225.8634	77.9986	280.1050	9.7942
17374	65.1567	249.3977	41.6200	282.5205	71.4705
11966	65.1283	340.4083	61.8618		59.8285
15041	65.1123	20.4580	12.9306	389.6810 17.6363	68.3133
1841	65.0987	80.2937	32.1224	57.3336	22.8917
10016	65.0919	240.9787	88.2186		25.8529
1715	65.0816	126.6321	32.8328	193.9152	52.6454
23780	65.0680	20.9706		108.8386	24.9623
9826	65.0339	31.0955	12.2426	31.2656	15.8604
	00.000	21.0900	14.2829	41.2229	14.9068
10015	65.0259	254.6920	86.7035	210.1809	54.9484

TABLE 5JJ: Timepoint(s	GENERAL		Atty. Re	ef. 44921-5090-01	-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
1727	65.0214	60.2738	36.8581	41.1555	29.0110
23336	65.0180	78.2744	21.6816		
19326	65.0168		20.4478		L
19022	65.0066	95.9416	26.5834		
25594	65.0009	349.0339	62.1185		62.3908
16192	65.0009	34.5344	9.0067	41.1047	9.9814
2448	76.8158	74.2112	19.8277	100.7353	20.1242
22939	75.1842	39.3657	41.2712	86.1641	33.9869
4479	72.7248	228.3896	100.9083	145.1523	76.0803
9976	72.2904	491.7338	202.1302	670.8533	145.1039
22930	72.1870	217.4787	140.3171	357.4950	131.3775
11426	71.7788	430.7607	141.9394	576.5768	141.7497
12662	71.6128	59.2040	32.3768	90.8955	26.9766
22678	71.2171	240.9209	48.3079	298.3937	55,4801
24171	70.7100	74.3770	22.6059	97.4837	23.2611
13428	70.6986	65.2547	20.1172	81.4399	19.7620
19220	70.4223	343.5755	79.9381	422.1556	68.5468
4909	70.4177	137.6288	51.9239	192.9884	52.6384
7868	70.3188	100.1702	31.4308	134.8450	36.8073
8820	70.0152	306.1685	131.6133	416.2712	114.1028
15596	69.9209	921.6366	213.7143	1113.8680	177.6359
4730	69.9209	938.7402	250.0683	1105.9844	192.0489
4253	69.8606	129.7892	40.9456	163.8501	34.9888
3304	69.8401	246.1395	57.3973	320.9397	79.5986
11399	69.8231	121.1745	49.4948	160.5642	48.4350
2331	69.7207	777.1228	653.0431	317.3893	197.5116
24051	69.6184	117.0387	31.0186	150.0066	31.1072
11680	69.4967	199.3478	39.9329	226.2258	34.2756
14494	69.4353	196.4649	42.6964	232.1137	32.0114
20953	69.3035	722.8413	152.7183	865.5185	121.5070
2196	69.2204	369.0324	73.7154	314.7563	52.8844
4285	69.1932	257.5456	74.2533	312.0967	54.7004
9633	69.1932	82.8350	45.8355	112.2171	34.7979
21997	69.1886	265.5388	73.6475	343.0222	76.1280
8619	69.1011	52.3146	29.2644	79.2878	29.7707
14095	68.9567	162.5993	39.5793	193.2475	35.8449
9317	68.8577	589.7563	156.9397	694.6903	135.0163
8917	68.8520	134.8922	40.7874	174.6518	35.4760
22130	68.8475	180.4303	49.2285	222.9292	52.0793
14776	68.7918	387.6523	82.4764	453.2932	75.4357
12435	68.7202	192.5566	44.7331	237.4061	43.5750
16124	68.6792	324.6097	169.9924	212.2391	55.5821
6550	68.6099	375.4099	91.4847	469.2689	93.3862
3043	68.5928	112.5273	35.1563	143.1731	30.3926
13826	68.5325	1219.1377	228.4679	1434.0857	217.1109
5863	68.4939	264.4685	63.6224	311.1134	54.0255
7785	68.4166	18.3555	25.9962	36.4874	21.6407
2803	68.3722	138.3072	54.9376	183.4522	45.2714
14700	68.3438	50.6679	20.6625	36.6629	13.0915
15449	68.3245	247.8878	62.7630	308.6923	71.0213
11897	68.2904	33.8856	11.4193	40.8550	10.4420
6263	68.2358	172.3906	46.0848	211.6096	45.1407

TABLE 5JJ: GENERAL Atty. Ref. 44921-5090-01-WO/210548					
Timepoint(s	s): Ali 🤔	· .	,		
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
11246	68.2028	91.1100	26.1558	113.3934	27.4628
22081	68.2017	196.6991	49.8133	238.1235	42.4566
6946	68.1960	463.8221	106.1912	523.8894	92.4231
16599	68.1630	481.9139	159.4526	608.6746	132.1457
11346	68.1198	86.2982	59.0297	133.2276	58.5674
12819	68.1096	432.2876	85.9746	504.2326	92.5986
22692	68.0971	432.0026	111.8651	519.1002	100.0788
12117	68.0413	517.5391	142.7068	610.0512	111.6380
14654	67.9811	247.5209	89.6507	300.3160	70.1127
11696	67.9595	112.8963	44.9690	145.3375	40.0203
16752	67.9492	73.7208	50.4746	115.6206	50.0369
18251	67.9197	86.9313	23.1752	70.5075	16.0715
6758	67.8810	23.2318	13.6344	14.3589	9.5633
5668	67.8765	61.2483	34.8436	86.7686	31.1453
6645	67.8230	126.1081	28.5670	149.3772	32.0343
18206	67.8105	259.8077	52.0249	213.7398	49.5328
2373	67.7832	315.5731	87.4847	397.0314	82.1406
4855	67.7002	54.6195	21.2220	71.0632	20.0774
6686	67.6457	283.0167	56.5288	346.3295	55.6461
10650	67.6411	605.0163	199.5154	772.0382	226.1347
17524	67.6343	1027.3541	226.9904	1192.6757	194.6795
4052	67.5570	395.4532	97.6496	468.9675	87.9716
4145	67.5354	1500.2723	281.6434	1281.0845	292.0936
11752	67.5069	1644.3102	418.3417	1893.5383	325.1941
11424	67.5035	474.7738	132.3324	609.3307	161.0273

TABLE 5KK: General Core Tox Markers Atty. Ref. 44921-5090-01-WO/210548 Timepoint(s): All						
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox	
22499	75.6185	34.2595	16.8535		1	
22321	75.1990	310.8506		146.9295		
20461	75.1842	62.7182	22.3949	88.6019		
21975	74.9238	268.8610		162.1553		
1530	74.2041	156.4787	33.4574	199.8098	39.7345	
15003	74.0688	321.4460	390.6709	46.5067	36.3258	
3431	73.4582	792.2635	219.3143	591.5221	122.8562	
15002	73.4241	432.4998	364.4478	159.8612	50.3720	
11422	73.1898	85.9764	29.2380	118.9154	30.0944	
18654	72.9079	152.9391	71.7638	231.9206	55.9597	
15402	72.8374	285.6013	59.4143	340.2954	57.4511	
17217	71.9823	350.7624	83.8685	419.1402	72.1336	
16080	71.7594	67.3947	76.5776	7.1628	23.8680	
19710	71.7106	75.2188	37.0771	44.2077	15.7666	
21657	71.5457	1185.4910	270.7155	902.5884	167.2371	
16081	71.4013	168.3883	130.2839	73.2613	37.7272	
6684	71.3603	27.7588	16.1172	44.4057	15.4531	
1892	71.3467	1642.8702	683.5585	1116.1400	239.3556	
21683	71.3410	97.1756	67.8425	40.2851	17.0137	
16312	71.1978	111.6100	72.4940	60.1567	18.3006	
18313	70.9726	3376.8495	897.5373	2652.8504	565.6103	
1521	70.7964	98.4309	43.5447	63.7035	29.5109	
20449	70.6133	292.2106	380.2844	64.6547	57.5069	
15191	70.6076	788.2982	1133.4138	61.5220	171.1551	
21239	70.5974	185.6163	105.8374	109.3490	45.4813	
17736	70.5474	1035.4250	693.2538	534.5436	180.7569	
4473	70.4132	90.9636	22.7675	114.9192	25.6330	
4130	70.3734	189.3837	78.0756	255.9001	68.0301	
8829	70.2574	317.4360	76.4486	258.2476	63.7526	
17394	70.2461	427.6224	96.3789	339.9802	85.1111	
9378	70.2415	100.9102	39.0637	135.8928	38.9239	
17215	70.1358	140.3519	46.7323	173.9482	36.5854	
21682	70.1062	28.3445	64.0469	-15.4356	55.3860	
22675	69.9914	48.9600	30.0366	26.0113	14.6579	
385	69.7503	27.3961	21.3493	49.2124	21.8259	
21443	69.6662	280.4249	116.2170	189.4061	55.3624	
574	69.4842	742.5717	254.3230	573.4534	112.0019	
5049	69.4194	653.5915	198.0143	761.5973	154.5657	
19976	69.3990	40.2866	10.3838	50.3488	12.1908	
1097	69.3091	238.2240	114.2269	318.9707	91.7227	
24875	69.2614	21.6493	10.7901	32.1978	12.7463	
11423	69.1954	157.6573	49.6884	214.8633	66.0918	
21583	69.0397	324.4733	146.4239	375.2011	115.5780	
23058	69.0237	232.9766	65.6118	295.2279	67.8701	
1714	69.0135	148.3219	31.1826	182.1938	40.0553	
20972	69.0010	845.8319	228.4433	1028.8737	206.7711	
15761	68.9464	23.3670	16.7164	34.5911	14.8369	
20983	68.8248	398.0834	113.6422	498.4937	99.1120	
18655	68.7418	107.6260	62.1282	167.7966	57.8838	
3799	68.6906	462.7803	191.9644	364.9625	81.7487	
4832	68.5496	744.6212	207.4810	907.2128	199.1618	
1435	68.5314	1107.3409	204.2324	959.6013	134.7527	
			-0	000.0010	107.1021	

TABLE 5KK: Timepoint(s	General Core	Tox Markers	Atty. R	ef. 44921-5090 - 0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
19650	68.4950	263.9817	56.8728	325.8264	64.7982
8210	68.3631	57.4586	22.8477	80.0516	27.4342
21444	68.3597	136.5334	82.1857	71.1793	
1638	68.2801	122.4597	39.2649	158.8515	42.8884
1340	68.2733	1100.5494	220.9089	1290.4251	198.7156
19279	68.2403	158.3076	24.7864		21.3291
10743	68.2199	139.7771	37.2153	170.4504	42.1306
20448	68.1937	200.0502	283.8492	54.1081	31.5035
17137	68.1414	656.8594	253.9941	892.0875	228.5328
16342	68.1414	28.4823	13.5937	36.5884	11.7237
3430	68.1062	139.4883	47.9044	102.3391	20.1371
21654	68.0948	281.9094	148.2317	188.9304	34.6117
2555	68.0675	67.1897	36.8268	42.6112	17.2322
20848	68.0470	1790.4577	279.1314	1568.6877	254.0128
17735	68.0232	1689.5961	1092.4495	972.3470	298.9849
10248	67.9470	380.7530	114.3829	294.6245	71.8207
11114	67.9458	58.9010	70.0447	24.7929	11.4189
24235	67.8913	271.3439	126.9928	190.0143	48.7300
20868	67.8913	76.0247	42.9611	43.2374	23.9546
13789	67.8560	35.6846	11.4824	49.3703	14.5261
18883	67.8196	95.9977	45.3994	63.0582	19.1063
6980	67.8105	119.7477	42.4442	154.0515	
16725	67.8083	21.0355	12.6859		
23368	67.7832	342.8849	89.3216		86.0283
12010	67.7571	161.2940	37.9738	198.3717	49.9862
16123	67.7093	151.7510	84.6333	97.4968	34.5563
24362	67.6127	70.1349	21.0065	83.7830	19.9340
4339	67.5354	330.9076	59.9258	376.9540	58.0307
25705	67.5274	483.3095	205.7122	338.5691	79.1325
24219	67.5274	362.8953	136.9343	283.3848	55.6203
11153	67.4671	592.1088	210.2750	448.4556	122.6381
15379	67.3819	86.2432	32.6069	115.5606	35.7516
1271	67.3750	71.4633	17.5343	82.4708	14.7182
20433	67.3398	102.2437	66.1840	59.7421	20.5107
20177	67.3102	28.9418	16.2224	45.2501	18.6935
23731	67.2909	196.6788	64.7240	152.3782	36.4458
17296	67.2704	31.4375			8.0298
24763	67.2386	145.2555	55.4727	178.1109	· · · · · · · · · · · · · · · · · · ·
8597	67.1806	198.7026	63.6688	150.9571	30.9868
17601	67.1385	177.2865	41.5957		38.2134
11865		52.4406	19.9271	67.5548	
25545			125.5411	360.7596	
13646		683.5205	181.4408		
16205		1735.3080	245.2707		
10887	66.9805	67.1386	21.2123	91.3261	30.9001
5384	66.9703		105.1552		36.3468
20729	66.9566	698.2047	127.5898		
16518		1021.8743			169.6207
1159		85.6168			30.7412
18403		2385.3237	624.8610		
17734					
64					

Timepoint(s)			Atty. R	ef. 44921-5090-0	1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
14185	66.8338			421.8475	190.0477
13092	66.7474			198.6891	
24234	66.7451			72.8244	
13574	66.6905	114.3515	29.1618	98.1320	
20869	66.6678	99.6105	58.7429	55.4663	
14989	66.6633	848.9285	202.1613	706.7301	
1760	66.6257	156.3426	43.0133	187.7109	
10097	66.5984	104.9067	22.6132	123.0126	
3692	66.5893	155.3092	29.6198	181.2876	
17401	66.5848	853.6625	441.6559	548.8353	114.9200
15189	66.5791	677.1638	755.3909	270.6925	144.6199
15032	66.5382	33.1735	8.9006	39.5999	9.7445
20734	66.5132	145.0892	98.4298	87.0347	26.7804
11352	66.4768	266.1557	69.8218	311.6899	59.9196
16204	66.4711	1406.6185	208.4569	1244.8317	193.7024
17218	66.4677	313.9458	79.0318	376.5280	94.0896
18360	66.4563	346.4218	85.2672	426.0018	103.2818
1894	66.4427	204.3381	90.7458	137.8497	59.8939
1719	66.3949	156.4190	48.4436	192.6382	46.9362
244	66.3585	111.2471	93.3779	54.6692	21.8570
19048	66.3517	52.1643	20.6674	68.5798	24.8104
16947	66.3460	64.6320	19.0932	77.9823	20.8584
21722	66.3392	78.8460	28.5022	97.4257	24.5642
958	66.3233	94.4035	32.8317	115′.1819	31.7274
20740	66.3096	566.3856	242.7529	429.8468	99.6875
19649	66.2733	77.2451	23.2617	99.7705	22.8430
15767	66.2687	185.6237	46.5275	222.2000	50.5705
561	66.2516	430.8957	72.4243	495.6473	76.5463
23300	66.2346	952.1552	173.8440	1085.2464	163.2462
14184	66.1891	301.6652	151.3410	207.8567	99.5168
15540	66.1050	113.0405	134.6910	43.5299	17.5777
24662	66.1027	156.7100	39.5070	183.0955	38.7900
17161	66.0777	329.7487	257.8396	182.3693	62.7994
25479	66.0254	1722.2655	325.7824	1991.8786	338.8588
15468	66.0083	1436.5322	229.7038	1276.1137	212.9131
20204	65.9526	33.7880	16.9377	44.5225	12.8927
11530	65.9230	382.9851	353.7153	177.7582	87.6155
1571	65.9128	215.1553	90.6577	165.2073	40.6653
15935	65.8992	60.7917	15.5263	74.6537	16.3323
8211	65.8912	828.4386	237.9910	659.2601	154.1607
24873	65.8560	379.1240	64.7791	435.5892	77.2116
19278	65.8173	90.0442	30.9386	116.4107	38.5619
14580	65.7684	26.6497	11.7230	32.3422	13.6095
1170	65.7479	90.3365	27.3135	72.4629	17.7150
20735	65.7195	148.3225	96.1664	92.8798	26.7873
21069	65.6854	41.7827	10.6361	51.4599	14.6778
8212	65.6047	600.7557	164.8662	464.3623	104.1410
1867	65.5399	728.2960	130.0766	636.9389	117.5832
4327	65.5387	108.9996	31.7510	88.2913	26.4895
24419	65.5251	87.8761	57.7349	60.3946	71.2141
11745	65.4910	479.0887	84.5144	542.6919	79.8628
23715	65.4603	32.3760	54.2645	6.1169	14.4939

Timepoint(s)	General Core): All		Atty. R	ef. 44921-5090-0	1-WO/2105485
	LDA Score	Mean Tox:	SD Tox	Mean Nontox	SD Nontox
13938				93.8024	22.4060
20915	65.4296		102.8241	377.7500	
23166	65.4284	128.0336	40.9484	105.3646	
20229	65.4250	56.3994	20.7035	75.9754	22.7467
7164	65.4148	75.5764	21.5404	94.6448	27.7397
25795	65.3875	278.7450	102.4319	364.5919	
11531	65.3830	699.7980	596.1378	348.1907	133.4042
15410	65.3750	1163.7670	225.4294	1323.9725	212.6852
15617	65.3625	22.0207	10.8451	13.6338	7.1597
15125	65.3568	73.4162	25.4616	55.7064	17.4314
4448	65.3261	29.2971	10.2480	36.2998	10.4588
24420	65.3238	1652.0605	361.4076	1453.4235	277.2366
1324	65.3204	545.2323	114.5703	620.8049	113.7748
3623	65.3034	30.9912	14.5403	40.3320	13.1050
17963	65.2818	191.6866	68.4033	233.2032	76.8655
16485	65.2715	193.8563	39.4326	223.3569	43.3008
25567	65.2511	104.1917	68.9794	61.4264	22.5819
10185	65.1976	26.7998	12.4135	32.3165	9.7942
11152	65.1965	292.1286	136.9697	202.8651	65.7325
1731	65.1874	225.8634	77.9986	280.1050	71.4705
19085	65.1851	64.1975	23.2243	49.7426	9.5907
17374	65.1567	249.3977	41.6200	282.5205	59.8285
11483	65.1465	141.9201	75.6824	91.5787	30.8087
24783	65.1442	123.5962	30.1164	140.7204	30.2415
20743	65.1317	134.8016	31.2461	160.3544	25.4080
11966	65.1283	340.4083	61.8618	389.6810	68.3133
15041	65.1123	20.4580	12.9306	17.6363	22.8917
1841	65.0987	80.2937	32.1224	57.3336	25.8529
15300	65.0964	362.0063	238.6042	227.2502	112.3115
24867	65.0953	41.6273	15.5508	53.9894	18.6980
10016	65.0919	240.9787	88.2186	193.9152	52.6454
1715	65.0816	126.6321	32.8328	108.8386	24.9623
23780	65.0680	20.9706	12.2426	31.2656	15.8604
356	65.0418	81.3621	80.7823	33.5443	26.6137
9826	65.0339	31.0955	14.2829	41.2229	14.9068
10015	65.0259	254.6920	86.7035	210.1809	54.9484
2629	65.0248	37.6718	38.3003	18.3119	7.1524
25895	65.0237	8.6614	17.4251	20.4931	21.4915
1727	65.0214	60.2738	36.8581	41.1555	29.0110
23336	65.0180	78.2744	21.6816	96.2845	24.4844
19326	65.0168	65.5375	20.4478	53.0026	20.4891
19022	65.0066	95.9416	26.5834	109.1019	27.2374
25594	65.0009	349.0339	62.1185	385.2526	62.3908
16192	65.0009	34.5344	9.0067	41.1047	9.9814
23964	78.2144	126.5579	41.9930	77.4694	22.1057
3207	77.0137	137.5633	99.9263	268.1614	78.1861
2448	76.8158	74.2112	19.8277	100.7353	20.1242
6606	75.2706	2778.3866	1267.7231	1664.3804	379.8859
22939	75.1842	39.3657	41.2712	86.1641	33.9869
9583	74.9068	150.7627	119.1253	63.1029	22.4454
7362	74.8761	149.2298	45.9850	199.9303	42.5089
9059	73.8220	356.3773	96.3852	252.4288	64.5639

ICL CO ID. TE	All	<u> </u>			1-WO/2105485
GLGC ID L	DA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
3941	73.6287	254.3828	112.6162	168.0751	45.0735
5675	73.2808	298.0814	280.3566	127.8580	
13460	72.8578	262.2853	76.3707	350.4144	56.4241
4479	72.7248	228.3896	100.9083	145.1523	76.0803
12946	72.5713	182.2626	46.7070	225.9337	34.5637
14458	72.5599	65.5700	33.0872	36.6221	24.3487
3049	72.3109	405.9825	271.7365	217.2998	57.3264
9976	72.2904	491.7338	202.1302	670.8533	145.1039
22677	72.1904	258.0386	131.7064	137.4176	65.6055
22930	72.1870	217.4787	140.3171	357.4950	131.3775
23123	71.9698	416.7497	150.9988	301.3687	66.7771
5596	71.9505	108.4572	44.2477	155.3954	46.2269
2410	71.8208	37.3707	19.5481	20.8837	8.1009
11208	71.7936	438.5004	156.2798	307.8393	91.1659
11426	71.7788	430.7607	141.9394	576.5768	141.7497
11714	71.6628	561.7938	130.2066	690.4253	120.9098
12662	71.6128	59.2040	32.3768	90.8955	26.9766
22711	71.5912	190.7472	42.9075	237.9935	40.0049
22929	71.5855	475.6429	332.2278	785.2108	278.2014
2936	71.5855	58.5906	29.7154	77.3066	23.4416
15004	71.5116	639.3778	532.0518	267.6419	79.7785
5227	71.5070	195.6753	69.3480	141.6417	35.4440
5461	71.3910	169.5128	68.9620	108.3646	26.6276
3050 22678	71.2307	167.4707	129.9994	74.5745	29.3413
14840	71.2171	240.9209	48.3079	298.3937	55.4801
15644	71.1978 71.1375	37.0784	27.3592	16.2933	9.1900
1754	71.1375	1368.0130	384.5849	1057.4513	169.6982
15892	71.1068	142.5430	38.2508	188.2707	40.8210
21660	70.9396	116.6990	87.7207	47.4806	32.2038
24171	70.9396	2084.7781	602.4824	1503.6722	418.3801
13428	70.6986	74.3770 65.2547	22.6059	97.4837	23.2611
17644	70.6872	396.1171	20.1172	81.4399	19.7620
21740	70.6690	366.4832	99.4881	464.4665	78.7436
22378	70.5542	232.3337	152.4895 83.7080	260.6575	55.1897
3982	70.4507	212.0096	64.0922	281.5329	51.6681
22697	70.4394	293.2071	178.9767	278.0007 436.8873	64.0539
19220	70.4223	343.5755			143.0992
4909	70.4177	137.6288	79.9381 51.9239	422.1556	68.5468
5969	70.3939	524.5497	159.7548	192.9884	52.6384
7868	70.3188	100.1702	31.4308	408.3575 134.8450	98.7308
16	70.1790	1542.4920	400.2563	1158.2518	36.8073
17320	70.1460	238.4803	68.2936	178.0873	239.3993
8820	70.0152	306.1685	131.6133	416.2712	42.0592 114.1028
15596	69.9209	921.6366	213.7143	1113.8680	177.6359
4730	69.9209	938.7402	250.0683	1105.9844	192.0489
4253	69.8606	129.7892	40.9456	163.8501	34.9888
3304	69.8401	246.1395	57.3973	320.9397	79.5986
11399	69.8231	121.1745	49.4948	160.5642	48.4350
2331	69.7207	777.1228	653.0431	317.3893	197.5116
13029	69.6605	284.7117	151.2432	188.3711	57.9521
24051	69.6184	117.0387	31.0186	150.0066	31.1072

LGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18744	69.5945	135.8172	51.9894	105.7400	
24028			97.8341	392.1102	
11680		199.3478			
10227	69.4433				
14494	69.4353	196.4649		L	
20953	69.3035				
5867	69.2921	149.7650	33.7458		
16596	69.2602	247.6911	77.9596		1
7760	69.2318	302.7767	73.0101	358.5221	59.480
2196		369.0324	73.7154	314.7563	
4285		257.5456	74.2533	312.0967	54.7004
9633	69.1932	82.8350	45.8355	112.2171	34.7979
21997	69.1886	265.5388	73.6475	343.0222	76.1280
9166	69.1590	113.8603	69.0179	54.2985	
17361	69.1340	73.5384	29.8482	101.2109	
15197	69.1272	257.4820	70.1225	321.7657	55.5452
2852	69.1113	341.3036		447.7942	126.275
8619	69.1011	52.3146	29.2644	79.2878	
8938	69.0897	41.6969	30.7637	78.2492	32.624
14095	68.9567	162.5993	39.5793	193.2475	
3822	68.9498	926.8186	312.3629	700.4526	
22212	68.9191	48.6413	16.3801	34.9544	
18473	68.8782	262.0640	95.1634	191.9001	58.326
22898	68.8611	141.4675	90.2036	77.8919	
9317	68.8577	589.7563	156.9397	694.6903	
8917	68.8520	134.8922	40.7874	174.6518	35.476
22130	68.8475	180.4303	49.2285	222.9292	52.079
3003	68.8282	135.2772	102.8554	58.5761	44.525
14776	68.7918	387.6523	82.4764	453.2932	75.435
6166	68.7690	250.6880	100.7962	336.0125	
4874	68.7361	109.2814	60.0379	152.9358	49.109
6548	68.7236	307.2205	137.4010	199.8153	58.242
12435	68.7202	192.5566	44.7331	237.4061	43.575
13310	68.6860	341.7250	99.9780	257.6428	
16124	68.6792	324.6097	169.9924	212.2391	55.582
10549			22.3612		
14464	68.6599	93.1297		143.4925	
15556	68.6371	588.6597	53.5168	733.8417	53.698 143.570
6550	68.6099	375.4099	170.6522		
3043	68.5928	112.5273	91.4847	469.2689	93.386
13826	68.5325		35.1563	143.1731	30.392
12664	68.5212	1219.1377 84.8834	228.4679 36.9411	1434.0857	217.1109
21766	68.5200	144.2476		118.8635	29.683
19184			48.3863	101.4527	28.638
	68.5189	45.0610	41.2248	14.0365	
5863	68.4939	264.4685 45.2749	63.6224	311.1134	
6982	68.4586	45.3718	58.1904	9.0022	11.6442
21796	68.4370	344.1850	140.6693	254.3082	68.7033
7785	68.4166	18.3555	25.9962	36.4874	21.640
24237	68.4041	321.6027	150.3749	212.4182	72.206
22899	68.3984	71.9333	49.5082	39.0086	
2803 14700	68.3722 68.3438	138.3072 50.6679	54.9376 20.6625	183.4522 36.6629	45.271

Timepoint(s			Atty. R		1-WO/2105485
GLGC ID	LDA Score	Mean Tox	SD/Tox	Mean Nontox	SD Nontox
22626	68.3427		113.5131	78.9540	32.9215
23978	68.3279	152.6187	43.5701	171.1043	
15449	68.3245	247.8878	62.7630	308.6923	
11897	68.2904	33.8856	11.4193	40.8550	
6263	68.2358	172.3906	46.0848	211.6096	
11246	68.2028	91.1100	26.1558	113.3934	27.4628
22081	68.2017	196.6991	49.8133	238.1235	42.4566
6946	68.1960	463.8221	106.1912	523.8894	92.4231
16599	68.1630	481.9139	159.4526	608.6746	132.1457
15283	68.1459	350.7587	73.8419	296.6933	65.3340
7315	68.1448	34.1667	46.4857	6.3470	17.7598
11346	68.1198	86.2982	59.0297	133.2276	58.5674
12819	68.1096	432.2876	85.9746	504.2326	92.5986
22692	68.0971	432.0026	111.8651	519.1002	100.0788
18507	68.0686	631.2803	150.0123	485.8802	116.3449
12117	68.0413	517.5391	142.7068	610.0512	111.6380
14654	67.9811	247.5209	89.6507	300.3160	70.1127
11242	67.9743	60.8831	36.0013	36.1544	16.9937
11696	67.9595	112.8963	44.9690	145.3375	40.0203
16752	67.9492	73.7208	50.4746	115.6206	50.0369
16533	67.9356	384.8170	134.7857	291.2660	70.3944
18251	67.9197	86.9313	23.1752	70.5075	16.0715
6758	67.8810	23.2318	13.6344	14.3589	9.5633
5668	67.8765	61.2483	34.8436	86.7686	31.1453
4861	67.8321	140.7460	51.4468	180.7381	41.4675
6645	67.8230	126.1081	28.5670	149.3772	32.0343
2539	67.8196	49.7049	46.1090	15.8238	22.4139
18206	67.8105	259.8077	52.0249	213.7398	49.5328
22615	67.7969	129.6028	185.4675	34.7554	33.0666
2373	67.7832	315.5731	87.4847	397.0314	82.1406
7749	67.7764	1258.3134	278.6021	1117.5030	188.5951
1287	67.7446	522.6697	143.8574	637.2558	128.8985
4855	67.7002	54.6195	21.2220	71.0632	20.0774
4154	67.6934	261.8141	94.0689	204.3082	51.8082
6585	67.6650	1146.6529	693.6719	647.8214	276.3213
23963	67.6604	75.4752	34.4528	55.7581	29.7259
22765	67.6593	48.4804	47.6731	18.4176	11.5782
6686	67.6457	283.0167	56.5288	346.3295	55.6461
3014	67.6445	209.8156	101.6757	259.7456	64.8388
10650	67.6411	605.0163	199.5154	772.0382	226.1347
17524	67.6343	1027.3541	226.9904	1192.6757	194.6795
4052	67.5570	395.4532	97.6496	468.9675	87.9716
8012	67.5558	40.1688	16.7176	27.3498	11.2761
4145	67.5354	1500.2723	281.6434	1281.0845	292.0936
17950	67.5331	61.5713	28.9890	38.8838	14.8504
11752	67.5069	1644.3102	418.3417	1893.5383	325.1941
11424	67.5035	474.7738	132.3324	609.3307	161.0273

	VASCULATU		4.7	ef. 44921-5090-0	
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
18135	85.1153			139.7580	28.6916
10015	84.4864	307.2109		216.8248	
19101	81.7610			204.9365	48.1947
574	81.6038	868.6018	163.9421	601.0181	155.2758
24623	81.4990	150.4577	33.4726	102.4795	32.5100
10016	81.4990	255.3307	40.9017	201.4507	62.8547
11352	81.0797	238.0028		302.5550	63.5805
8386	80.7128	191.6506		319.8779	112.2708
22739	80.6604	288.6301	32.0748	361.3413	61.5743
23731	80.5031	208.2056	35.9154	159.3211	45.0584
1510	80.1363	10.4589	25.8256	47.1716	33.7011
18108	79.9266	186.5162	19.2195	157.6083	24.1957
21443	79.4549	278.9396	65.4947	` 205.5944	75.5048
15185	79.2977	1191.3623	205.4639	927.9137	185.0006
21709	79.0881	379.8018	93.7882	251.8914	56.1212
15629	79.0356	35.2703	17.2408	60.6819	30.0155
20917	78.5115	92.9927	17.2303	127.6081	31.1693
18043	78.4591	95.0253	23.7170	62.4319	21.3725
25802	78.3019	827.0513	147.1717	597.0436	152.1345
11423	78.1447	137.3237	37.3896	204.2398	66.5344
15379	78.1447	68.1402	20.2105	109.5535	36.7328
7196	78.0398	218.5551	37.3309	169.1407	42.7482
20856	77.9350	920.0494	90.0732	1098.4819	186.9935
10185	77.6730	16.8177	9.9618	31.4369	10.3328
17108	77.5681	108.6139	26.7864	137.8878	27.1458
8597	77.5681	196.5452	33.9961	158.3220	41.6170
15886	77.3585	473.4446	52.3190	404.9769	96.7858
20778	77.3061	52.1464	7.7314	62.5674	13.1215
11635	77.1488	105.4547	29.3018	135.9076	28.7605
2689	76.8868	155.2587	17.7492	180.5665	32.8832
15741	76.7296	213.3656	39.0040	294.8905	82.3313
12347	76.5199	80.9177	15.4050	105.6893	37.4992
1283	76.5199	67.8683	22.4825	110.9277	40.2613
692	76.5199	184.3874	42.8530	136.3400	35.4832
20740	76.4675	767.3149	291.8238	445.5906	133.9981
11387	76.2579	38.4384	13.7943	60.3757	18.4692
243	76.2055	773.9058	141.3403	619.1436	112.2056
1745	76.2055	15.3793	7.6469	28.1031	13.7895
17920	76.1006	159.4769	22.2002	194.6245	58.2811
8384	76.1006	51.3825	14.2583	97.5901	53.4359
18957	75.9958	757.8179	109.3794	915.5492	163.8856
13646	75.8910	676.2628	111.7638	577.1817	157.9653
15706	75.7862	24.5906	7.0316	36.7932	11.9603
1942	75.7338	101.1933	43.7219	44.5242	32.3307
24469	75.7338	948.2668	237.3070	819.7597	143.6278
21102	75.7338	141.3676	41.2766	100.6470	36.9067
20249	75.6813	30.2006	20.4935	56.9048	24.6832
1791	75.6289	101.6522	14.2226	124.6235	26.7114
11350	75.3145	34.4875	12.3894	63.9145	29.9663
3799	75.2621	523.5803	197.0155	380.1915	112.2063
13974	75.2096	651.4240	118.8780	537.7303	145.4884
20986	75.0524	82.5788	26.3473	143.8036	78.5875

	VASCULATU		\$	ef. 44921-5090-0	1-WO/210548
	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox
16177	75.0000	37.5857			13.6200
4472	74.9476	11.5361	5.2972	24.1656	30.6138
8212	74.7904			493.9779	132.4742
167	74.7904	450.3721	84.3374	587.7048	176.1635
8596	74.7904	208.7893			53.9278
8200	74.7379	45.1388		32.1794	17.4461
2882	74.7379	464.8075	63.9311	567.8139	134.1016
16871	74.6855	57.6114	18.2495	83.2232	23.9593
15347	74.5807	107.5588	32.5574	81.7974	33.7852
1310	74.5807	124.4094	25.2817	150.5538	31.4220
15125	74.5283	77.9493	21.7589	58.5298	19.7972
17086	74.4759	258.0716	40.7148	207.6230	48.5107
2150	74.4235	124.7298	33.6883	153.2660	33.2243
20984	74.4235	512.0872	89.2280	660.8973	153.9719
5998	74.3711	80.2265	25.9044	108.2507	32.3720
21809	74.3711	47.6884	8.9429	61.3223	17.2978
25710	74.2138	120.7997	70.3191	66.2559	70.0479
21421	74.2138	36.1153	11.6675	47.8754	14.3422
25547	74.1614	233.1962	107.9455	357.9659	128.6390
1383	74.1614	147.4641	19.1658	162.2522	44.1481
349	74.1090	149.7719	18.5362	177.6972	36.2009
15849	74.0566	171.2254	58.8615	275.9202	143.2404
15697	74.0566	91.9489	11.0971	78.8023	25.1081
17159	74.0566	1323.5028	203.4722	1015.7870	243.5127
17612	73.7945	136.9738	29.7617	184.9652	54.2385
24428	73.7421	103.1922	25.2810	79.8971	19.9430
21840	73.7421	427.7531	74.4946	526.4060	123.2075
15510	73.7421	231.8466	44.2767	281.7326	54.4460
19177	73.6897	64.8991	24.4287	89.0352	27.9706
24107	73.6373	97.4100	40.5221	110.0648	28.1940
14554	73.5849	75.4516	13.1010	100.9108	27.6784
25379	73.5325	265.7183	60.6464	189.6822	49.0552
15767	73.5325	173.4103	26.5105	214.5572	52.0656
20985	73.4801	86.3309	36.4701	95.2842	22.7042
25594	73.4277	309.3353	59.2185	377.8568	64.1453
19894	73.4277	310.4214	135.1212	188.4120	63.2929
10071	73.3753	395.4896	137.1970	263.7735	107.1199
13151	73.3753	2714.7755	598.6401	2181.2875	567.1612
17212	73.3753	107.5611	17.5468	132.2912	35.3210
20092	73.3229	20.8556	6.3050	34.3316	18.0096
20515	73.2704	84.0794	12.1683	101.9885	22.0912
13926	73.2704	37.5504	8.4762	48.6142	12.4977
25365	73.1656	26.6963	9.5167	47.8513	34.0213
5065	73.1656	35.7989	9.9797	47.9983	13.0662
16330	73.1132	203.4242	27.4716	172.4242	33.3735
23854	73.0608	846.9536	120.8130	708.7908	174.9077
24420	73.0084	1707.2664	471.1667	1500.5725	304.1412
15244	73.0084	15.8128	4.8813	23.6694	9.2592
2757	90.4612	1394.3556	259.9027	804.5697	235.2406
6548	86.5828	482.3749	176.7265	210.7078	73.1549
24171	85.9539	55.8309	14.5413	93.8863	25.5174
17232	85.0105	1029.6436	282.6006	618.4952	216.5173

TABLE 5LL:	TABLE 5LL: VASCULATURE AGENTS Atty. Ref. 44921-5090-01-WO/21							
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox			
7846		10.8661	25.0190	45.1187	20.7384			
6037		57.6997	16.1603	80.4229	18.0692			
13622		379.5139	76.6283	251.7745				
21816		325.1390	68.8148	239.4026	60.7244			
4168		74.0096	24.8449	110.7782	22.4086			
22914		1799.6522	315.7989	2446.7836	478.9589			
13664		68.2059	8.9533		35.2244			
23978		124.2453	24.0576	167.6789	33.1815			
9454		26.4989	33.4200	40.8179	23.9389			
22484	80.9224	74.5881	19.8437	49.1110	19.6706			
3014		154.3853	48.4023	250.2939	75.1165			
13296	80.9224	120.8284	40.0001	198.2065	56.0612			
6897	79.9790	170.1049	32.0611	232.1324	59.2158			
4330	79.8742	806.9655	381.4427	449.5732	123.3802			
23822	79.8742	133.8473	112.7870	319.2932	145.2744			
23015	79.7170	123.1848	48.7067	77.3003	20.7720			
19840	79.7170	1671.9778	299.7040	1348.2181	316.5176			
17003	79.5597	92.5409	49.1633	101.8845	. 29.1822			
12946	79.4025	155.2430	34.5710	219.4671	41.7648			
3904	79.3501	232.2479	56.7419	134.3438	93.9374			
3332	78.8784	382.2983	62.5836	304.7896	65.9419			
9485	78.6164	55.9292	45.7132	54.4030	25.9155			
2321	78.6164	78.8396	29.1136	61.0074	17.6434			
14434	78.3543	54.1851	10.2485	72.9447	25.9951			
23428	78.1971	715.2545	140.8607	516.5359	137.3348			
20924	78.1447	410.4444	95.4891	560.8658	145.6595			
20038	78.1447	147.3998	30.8322	199.9446	50.9599			
6946	77.9874	381.3689	98.9321	512.4703	102.1374			
24022	77.9874	75.2621	19.1818	102.1569	27.0579			
6509	77.8826	30.4987	24.7422	0.6097	30.3192			
6489	77.8826	190.7523	40.0632	256.2544	52.0426			
3250	77.7254	670.2989	218.5471	434.6725	153.5243			
17363	77.6730	431.3331	42.8836	527.6242	94.1476			
24310	77.6205	426.9662	135.6242	306.1028	92.5617			
5795	77.5681	415.6309	137.6263	548.9514	130.9881			
16756	77.4109	170.4001	34.0036	135.6609	30.9771			
12435	77.3585	163.8264	43.3651	230.6378	47.8400			
12399	77.3061	205.5457	48.7213	144.4195	39.4832			
18473	77.2537	321.1359	96.9679	202.9609	69.2027			
12662	76.9916	54.9449	27.1251	85.9728	31.3064			
6226	76.8868	248.0906	60.6504	172.4560	54.6165			
19006	76.8344	1498.6855	335.8005	1055.0046	326.8376			
3143	76.8344	258.8920	63.6545	323.6245	81.6914			
3982	76.8344	177.5016	56.3794	268.5876	71.5952			
5206	76.7820	93.5909	65.7977	111.3791	39.7002			
18529	76.6771	408.7730	80.3108	289.0741	76.2198			
4770	76.6771	231.7275	47.6269	171.2552	44.3775			
19195	76.4675	2261.7617	542.8825	1640.1981	380.3353			
7117	76.4675	112.8620	21.9993	142.7610	28.4806			
21639	76.4151	608.7199	92.4545	519.8072	103.6568			
14884	76.2055	50.1086	17.2257	74.0682	26.0532			
13758	76.1530	30.3706	11.4064	44.7867	12.0964			

TABLE 5LL:	VASCULATU	RE AGENTS	Atty. R	ef. 44921-5090-0	,		
GLGC ID	LDA Score	Mean Tox	SD Tox	Mean Nontox	SD Nontox		
11355	76.1006	102.1580	76.3592	110.7182	42.9662		
5732	75.9958	123.6594	33.4845	153.8469	30.0792		
15365	75.8910	1198.6604	348.4301	1027.8836	213.4106		

: * *	Treatment and	Dosage	Conc.	No. of	f. 44921-5090-01-WO/2105
Toxin and Group	Compound	(mg/kg)	(mg/ml)	Males	Sacrifice
	1 intraperitoneal			 	
Cyclophosphamide	injection on Day 1				
1	Saline	0	0	5	6 hours post-dose
2	Cyclophosphamide	20	2	5	6 hours post-dose
3	Cyclophosphamide	200	20	5	6 hours post-dose
4	Saline	0	0	5	24 hours post-dose
5	Cyclophosphamide	20	2	5	24 hours post-dose
6	Cyclophosphamide	200	20	5	24 hours post-dose
7	Saline	0	0	5	48 hours post-dose
8	Cyclophosphamide	20	2	5	48 hours post-dose
9	Cyclophosphamide	200	20	5	48 hours post-dose
10	Saline	0	0	5	Day 8
11	Cyclophosphamide	20	2	5	Day 8
12	Cyclophosphamide	200	20	5	Day 8
a i jak	: 3		S.		A
	Daily i.p. injection excep	t		1	
	for day of sacrifice			1	
	(groups 1-3 injected on				
fosfamide	day of sacrifice)			1	
11	Saline	0	0	5	6 hours post-dose
2	Ifosfamide	5	0.5	5	6 hours post-dose
3	Ifosfamide	100	10	5	6 hours post-dose
4	Saline	0	0	5	24 hours post-dose
5	Ifosfamide	5	0.5	5	24 hours post-dose
6	Ifosfamide	100	10	5	24 hours post-dose
7	Saline	0	0	5	48 hours post-dose
8	Ifosfamide	5	0.5	5	48 hours post-dose
9	Ifosfamide	100	10	5	48 hours post-dose
10	Saline	0	0	5	Day 6
11	Ifosfamide	5	0.5	5	Day 6
12	Ifosfamide	100	10	5	Day 6
N ₁ 12 N ₂		: Ŷ,	- 1	1	
	Added to drinking water,				
-	continuous until	mg/L			
linoxidil	sacrifice (changed daily)	(ppm)			
1	Drinking water	0	1	5	6 hours post-dose
2	Minoxidil	12		5	6 hours post-dose
3	Minoxidil	120		5	6 hours post-dose
4	Drinking water	0		5	24 hours post-dose
5	Minoxidil	12		5	24 hours post-dose
6	Minoxidil	120		5	24 hours post-dose
7	Drinking water	0		5	Day 15
8	Minoxidil	12		5	Day 15
9	Minoxidil	120		5	Day 15
		Dosage	Conc.	1	
ydralazine	2	(mg/kg)	(mg/ml)	1	
11	Saline	0	0	5	6 hours post-dose
2	Hydralazine HCI	2.5	1.25	- 5	6 hours post-dose

	Treatment and	Dosage	Conc.	No. of	. 44921-5090-01-WO/210
Toxin and Group	Compound	(mg/kg)	(mg/ml)	Males	Sacrifice
3	Hydralazine HCl	25	12.5	5	6 hours post-dose
4	Saline	0	0	5	24 hours post-dose
5	Hydralazine HCI	2.5	1.25	5	24 hours post-dose
6	Hydralazine HCl	25	12.5	5	24 hours post-dose
7	Saline	0	0	5	Day 3
8	Hydralazine HCl	2.5	1.25	5	Day 3
9	Hydralazine HCI	25	12.5	5	Day 3
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	***	······································		- 7	.,
	daily oral gavage, but			T	T
	not on day of sacrifice		İ		
3I-QT	(except groups 1-3)		ĺ		
1	0.5% natrosol	0	0	4	6 hrs post-dose
2	BI-QT	10	1.0	4	6 hrs post-dose
3	BI-QT	50	5.0	4	6 hrs post-dose
4	0.5% natrosol	0	0	4	24 hrs post-dose
5	BI-QT	10	1.0	4	24 hrs post-dose
6	BI-QT	50	5.0	4	24 hrs post-dose
7	0.5% natrosol	0	0	4	Day 3
8	BI-QT	10	1.0	4	Day 3
9	BI-QT	50	5.0	4	Day 3
10	0.5% natrosol	0	0	4	Day 7
11	BI-QT	10	1.0	4	Day 7
12	BI-QT	50	5.0	4	Day 7
13	0.5% natrosol	0	0	4	Day 14
14	BI-QT	10	1.0	4	Day 14
15	BI-QT	50	5.0	4	Day 14
Š.		· · · · · · · · · · · · · · · · · · ·	1 1		1 20) 11
	Daily subcutaneous		T	T	
	injection, but not on day			1	
	of sacrifice (except				
lenbuterol	groups 1-3)				
1	Saline	0	0.00	5	6 hrs post-dose
2	Clenbuterol	0.4	0.23	5	6 hrs post-dose
3	Clenbuterol	4.0	2.27	5	6 hrs post-dose
4	Saline	0	0.00	5	24 hrs post-dose
5	Clenbuterol	0.4	0.23	5	24 hrs post-dose
6	Clenbuterol	4.0	2.27	5	24 hrs post-dose
7	Saline	0	0.00	5	Day 6
8	Clenbuterol	0.4	0.23	5	Day 6
9	Clenbuterol	4.0	2.27	5	Day 6
10	Saline	0	0.00	5	Day 15
11	Clenbuterol	0.4	0.23	5	Day 15
12	Clenbuterol	4.0	2.27	5	Day 15
-					24) 10
	1 subcutaneous				· · · · · · · · · · · · · · · · · · ·
oproterenol	injection on Day 1]		
1	Sterile water	0	0	5	3 hrs post-dose
2	Isoproterenol	0.05	0.05	5	3 hrs post-dose
3	Isoproterenol	0.5	0.05	5	3 hrs post-dose
4	Sterile water	0.5	0.5	5	6 hrs post-dose
5	Isoproterenol	0.05	0.05	5	6 hrs post-dose

	Treatment and	Dosage	Conc.	No. of	44921-5090-01-WO/210
Toxin and Group	Compound	(mg/kg)	(mg/ml)	Males	Sacrifice
6	Isoproterenol	0.5	0.5	5	6 hrs post-dose
7	Sterile water	0	0	5	24 hrs post-dose
8	Isoproterenol	0.05	0.05	5	24 hrs post-dose
9	Isoproterenol	0.5	0.5	5	24 hrs post-dose
	1 subcutaneous		··-	13	
Norepinephrine	injection on Day 1				
1	Sterile water	0	0	5	3 hrs post-dose
2	Norepinephrine	0.05	0.05	5	3 hrs post-dose
3	Norepinephrine	0.5	0.5	5	3 hrs post-dose
4	Sterile water	0	0.0	5	6 hrs post-dose
5	Norepinephrine	0.05	0.05	5	6 hrs post-dose
6	Norepinephrine	0.5	0.5	5	6 hrs post-dose
7	Sterile water	0	0.0	5	24 hrs post-dose
8	Norepinephrine	0.05	0.05	5	24 hrs post-dose
9	Norepinephrine	0.5	0.5	5	24 hrs post-dose
19 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 0.0	1 0.0 .*	3	
<u></u>	1 subcutaneous	1	- 2,	ì 	· · · · · · · · · · · · · · · · · · ·
Epinephrine	injection on Day 1	İ			
1	Sterile water	0	0	5	3 hrs post-dose
2	Epinephrine	0.1	0.1	5	3 hrs post-dose
3	Epinephrine	1	1	5	
4	Sterile water	0	0	5	3 hrs post-dose
5	Epinephrine	0.1	0.1	5	6 hrs post-dose
6	Epinephrine		+	5	6 hrs post-dose
7	Sterile water	0	0	5	6 hrs post-dose
8	Epinephrine	0.1		5	24 hrs post-dose
9			0.1	5	24 hrs post-dose
<u> </u>	Epinephrine	1 1	1 1	1 3	24 hrs post-dose
Adriamycin (Doxorubicin	1 intravenous injection	<u> </u>	1	 	
iCi)	on Day 1]		
1	Saline	0	0	5	6 hours post-dose
2	Doxorubicin HCI	1.3	0.64	5	6 hours post-dose
3	Doxorubicin HCl	12.8	6.4	5	6 hours post-dose
4	Saline	0	0	5	24 hours post-dose
5	Doxorubicin HCI	1.3	0.64	5	24 hours post-dose
6	Doxorubicin HCI	12.8	6.4	5	24 hours post-dose
7	Saline	0	0	5	Day 6
8	Doxorubicin HCI	1.3	0.64	5	Day 6
9	Doxorubicin HCI	12.8	6.4	5	Day 6
10	Saline	0	0	5	Day 8
11	Doxorubicin HCI	1.3	0.64	5	Day 8
12	Doxorubicin HCI	12.8	6.4	5	Day 8
	1.	J	·	1	
	intravenous bolus on		T		
Amphotericin B	Day 1				
1	Saline	0	0	5	3 hrs post-dose
2	Amphotericin B	0.25	0.125	5	3 hrs post-dose
3	Amphotericin B	2.5	1.25	7	3 hrs post-dose
4	Saline	0	0	5	6 hrs post-dose
5	Amphotericin B	0.25	0.125	5	6 hrs post-dose

	Treatment and	Dosage	Conc.	No. of	f. 44921-5090-01-WO/21054
Toxin and Group	Compound	(mg/kg)	(mg/ml)	Males	Sacrifice
6	Amphotericin B	2.5	1.25	7	6 hrs post-dose
7	Saline	0	0	5	24 hrs post-dose
8	Amphotericin B	0.25	0.125	5	24 hrs post-dose
9	Amphotericin B	2.5	1.25	7	24 hrs post-dose
, 18°					
	intravenous injection on				
iprubicin	Day 1				
1	Saline	0	0	5	6 hours post-dose
2	Epirubicin	1.2	0.6	5	6 hours post-dose
3	Epirubicin	12	6	5	6 hours post-dose
4	Saline	0	0	5	24 hours post-dose
5	Epirubicin	1.2	0.6	5	24 hours post-dose
6	Epirubicin	12	6	5	24 hours post-dose
7	Saline	0	0	5	Day 6
8	Epirubicin	1.2	0.6	5	Day 6
9	Epirubicin	12	6	5	Day 6
10	Saline	0	0	5	Day 8
11	Epirubicin	1.2	0.6	5	Day 8
12	Epirubicin	12	6	5	Day 8
			使 旗	A30	
d	intrapeitoneal injection				
henylpropanolamine	on Day 1				
1	Saline	0	0	5	3 hrs post-dose
2	Phenylpropanolamine	8	0.8	5	3 hrs post-dose
3	Phenylpropanolamine	80	8	5	3 hrs post-dose
4	Saline	0	0	5	6 hrs post-dose
5 .	Phenylpropanolamine	8	0.8	5	6 hrs post-dose
6	Phenylpropanolamine	80	8	5	6 hrs post-dose
7	Saline	0	0	5	24 hrs post-dose
8	Phenylpropanolamine	8	0.8	5	24 hrs post-dose
9	Phenylpropanolamine	80	8	5	24 hrs post-dose
<u>ن</u> -د	15.	· ·	37 A.		N. 15
!-!!!	5 daily doses of oral				
osiglitazone	gavage	<u> </u>			
1	1% methylcellulose	0	0	5	6 hours post-dose
2 3	Rosiglitazone	18	1.8	5	6 hours post-dose
	Rosiglitazone	180	18	5	6 hours post-dose
4	1% methylcellulose	0	0	5	24 hours post-dose
5	Rosiglitazone	18	1.8	5	24 hours post-dose
6 7	Rosiglitazone	180	18	5	24 hours post-dose
	1% methylcellulose	0	0	5	Day 8
8	Rosiglitazone	18	1.8	5	Day 8
9	Rosiglitazone	180	18	5	Day 8
10	1% methylcellulose	0	0	5	Day 15
11	Rosiglitazone	18	1.8	5	Day 15
12	Rosiglitazone	180	18	5	Day 15

WE CLAIM:

1. A method of predicting at least one toxic effect of a compound, comprising:

- (a) obtaining a gene expression profile of a tissue or cell sample exposed to the compound; and
- (b) comparing the gene expression profile to a database comprising substantially all of the data or information of Tables 5A-5LL.
- 2. A method of claim 1, wherein the gene expression profile obtained from the tissue or cell sample comprises the level of expression for at least one gene.
- 3. A method of claim 2, wherein the level of expression is compared to a Tox Mean and/or NonTox Mean value in Tables 5A-5LL.
- 4. A method of claim 3, wherein the level of expression is normalized prior to comparison.
- 5. A method of claim 1, wherein the database comprises substantially all of the data or information in Tables 5A-5LL.
- 6. A method of claim 1, wherein the tissue or cell sample is a heart tissue or heart cell sample.
- A method of predicting at least one toxic effect of a compound, comprising:

 (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; wherein differential expression of the genes in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II is indicative of at least one toxic effect.
- 8. A method of predicting the progression of a toxic effect of a compound, comprising:

(a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; wherein differential expression of the genes in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II is indicative of toxicity progression.

- 9. A method of predicting the cardiotoxicity of a compound, comprising:
 - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; wherein differential expression of the genes in 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II is indicative of cardiotoxicity.
- 10. A method of identifying an agent that modulates the onset or progression of a toxic response, comprising:
 - (a) exposing a cell to the agent and a known toxin; and
 - (b) detecting the agent induced change in the expression level of two or more genes from Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; wherein differential expression of the genes in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II, compared to a control, is indicative of toxicity.
- 11. A method of predicting the cellular pathways that a compound modulates in a cell, comprising:
 - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; wherein differential expression of the genes in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II is associated the modulation of at least one cellular pathway.
- 12. The method of any one of claims 7-11, wherein the expression levels of at least 5 genes are detected.

13. The method of any one of claims 7-11, wherein the expression levels of at least 10 genes are detected.

- 14. The method of any one of claims 7-11, wherein the expression levels of at least 25 genes are detected.
- 15. The method of any one of claims 7-11, wherein the expression levels of at least 50 genes are detected.
- 16. The method of any one of claims 7-11, wherein the expression levels of at least 100 genes are detected.
- 17. The method of any one of claims 7-11, wherein the expression levels of at least 200 genes are detected.
- 18. The method of any one of claims 7-11, wherein the expression levels of at least 500 genes are detected.
- 19. The method of any one of claims 7-11, wherein the expression levels of nearly all genes are detected.
- 20. A method of claim 7 or 8, wherein the effect is selected from the group consisting of myocarditis, arrhythmias, tachycardia, myocardial ischemia, angina, hypertension, hypotension, dyspnea, and cardiogenic shock.
- 21. A method of claim 9, wherein the cardiotoxicity is associated with at least one heart disease pathology selected from the group consisting of myocarditis, arrhythmias, tachycardia, myocardial ischemia, angina, hypertension, hypotension, dyspnea, and cardiogenic shock.
- 22. A method of claim 11, wherein the cellular pathway is modulated by a toxin selected from the group consisting of cyclophosphamide, ifosfamide, minoxidil,

hydralazine, BI-QT, clenbuterol, isoproterenol, norepinephrine, epinephrine, adriamycin, amphotericin B, epirubicin, phenylpropanolamine, and rosiglitazone.

- A set of at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II.
- 24. A set of probes according to claim 23, wherein the set comprises probes that hybridize to at least 10 genes.
- 25. A set of probes according to claim 23, wherein the set comprises probes that hybridize to at least 50 genes.
- 26. A set of probes according to claim 23, wherein the set comprises probes that hybridize to at least 100 genes.
- 27. A set of probes according to claim 23, wherein the set comprises probes that hybridize to at least 500 genes.
- 28. A set of probes according to any one of claims 23-27, wherein the probes are attached to a solid support.
- 29. A set of probes according to claim 28, wherein the solid support is selected from the group consisting of a membrane, a glass support and a silicon support.
- 30. A solid support comprising at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II.
- 31. A solid support of claim 30, wherein the solid support is an array comprising at least 10 different oligonucleotides in discrete locations per square centimeter.

32. A solid support of claim 31, wherein the array comprises at least about 100 different oligonucleotides in discrete locations per square centimeter.

- 33. A solid support of claim 31, wherein the array comprises at least about 1000 different oligonucleotides in discrete locations per square centimeter.
- 34. A solid support of claim 31, wherein the array comprises at least about 10,000 different oligonucleotides in discrete locations per square centimeter.
- 35. A computer system comprising:
 - (a) a database containing information identifying the expression level in a tissue or cell sample exposed to a cardiotoxin of a set of genes comprising at least two genes in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II; and
 - (b) a user interface to view the information.
- 36. A computer system of claim 35, wherein the database further comprises sequence information for the genes.
- 37. A computer system of claim 35, wherein the database further comprises information identifying the expression level for the set of genes in the tissue or cell sample before exposure to a cardiotoxin.
- 38. A computer system of claim 35, wherein the database further comprises information identifying the expression level of the set of genes in a tissue or cell sample exposed to at least a second cardiotoxin.
- 39. A computer system of any of claims 35-38, further comprising records including descriptive information from an external database, which information correlates said genes to records in the external database.
- 40. A computer system of claim 39, wherein the external database is GenBank.

41. A method of using a computer system of any one of claims 35-38 to present information identifying the expression level in a tissue or cell of at least one gene in Tables 5A-5LL, comprising:

comparing the expression level of at least one gene in Tables 5A-5LL in a tissue or cell exposed to a test agent to the level of expression of the gene in the database.

- 42. A method of claim 41, wherein the expression levels of at least 10 genes are compared.
- 43. A method of claim 41, wherein the expression levels of at least 100 genes are compared.
- 44. A method of claim 41, wherein the expression levels of at least 500 genes are compared.
- 45. A method of claim 41, further comprising the step of displaying the level of expression of at least one gene in the tissue or cell sample compared to the expression level when exposed to a toxin.
- 46. A method of claim 10, wherein the known toxin is a cardiotoxin.
- 47. A method of claim 43, wherein the cardiotoxin is selected from the group consisting of cyclophosphamide, ifosfamide, minoxidil, hydralazine, BI-QT, clenbuterol, isoproterenol, norepinephrine, epinephrine, adriamycin, amphotericin B, epirubicin, phenylpropanolamine, and rosiglitazone.
- 48. A method of any one of claims 7-11, wherein nearly all of the genes in Tables 5A-5LL are detected.
- 49. A method of claim 48, wherein all of the genes in at least one of Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II are detected.

50. A kit comprising at least one solid support of any one of claims 30-34 packaged with gene expression information for said genes.

- 51. A kit of claim 50, wherein the gene expression information comprises gene expression levels in a tissue or cell sample exposed to a cardiotoxin.
- 52. A kit of claim 51, wherein the gene expression information is in an electronic format.
- 53. A method of any one of claims 7-11, wherein the compound exposure is *in vivo* or *in vitro*.
- 54. A method of any one of claims 7-11, wherein the level of expression is detected by an amplification or hybridization assay.
- 55. A method of claim 54, wherein the amplification assay is quantitative or semi-quantitative PCR.
- 56. A method of claim 54, wherein the hybridization assay is selected from the group consisting of Northern blot, dot or slot blot, nuclease protection and microarray assays.
- A method of identifying an agent that modulates at least one activity of a protein encoded by a gene in Tables 5C, 5D, 5E, 5F, 5H, 5J, 5L, 5N, 5P, 5R, 5S, 5U, 5W, 5Y, 5AA, 5CC, 5EE, 5GG, 5HH, and 5II comprising:
 - (a) exposing the protein to the agent; and
 - (b) assaying at least one activity of said protein.
- 58. A method of claim 57, wherein the agent is exposed to a cell expressing the protein.
- 59. A method of claim 58, wherein the cell is exposed to a known toxin.

60. A method of claim 59 wherein the toxin modulates the expression of the protein.

- 61. A method of predicting at least one toxic effect of a compound, comprising:
 - (a) obtaining a gene expression profile of a tissue or cell sample exposed to the compound; and
 - (b) comparing the gene expression profile to a database comprising at least part of the data or information of Tables 5A, 5B, 5G, 5I, 5K, 5M, 5O, 5Q, 5T, 5V, 5X, 5Z, 5BB, 5DD, 5FF, 5JJ, 5KK, and 5LL.
- 62. A method of claim 61, wherein the gene expression profile obtained from the tissue or cell sample comprises the level of expression for at least one gene.
- A method of claim 62, wherein the level of expression is compared to a Tox Mean and/or Non-Tox Mean value in Tables 5A, 5B, 5G, 5I, 5K, 5M, 5O, 5Q, 5T, 5V, 5X, 5Z, 5BB, 5DD, 5FF, 5JJ, 5KK, and 5LL.
- 64. A method of claim 63, wherein the level of expression is normalized prior to comparison.
- 65. A method of claim 61, wherein the database comprises substantially all of the data or information in Tables 5A, 5B, 5G, 5I, 5K, 5M, 5O, 5Q, 5T, 5V, 5X, 5Z, 5BB, 5DD, 5FF, 5JJ, 5KK, and 5LL.
- 66. A method of claim 61, wherein the tissue or cell sample is a heart tissue or heart cell sample.